

## Unit-wise Weightage

| Section | Area of Learning               | Marks     | Books Prescribed :                  |
|---------|--------------------------------|-----------|-------------------------------------|
| A       | Reading Skills                 | 26        | 1. Hornbill (NCERT Text Book)       |
| B       | Writing Skills and Grammar     | 23        | 2. Snapshots (Supplementary Reader) |
| C       | Literature & Long Reading Text | 31        |                                     |
| D       | English Projects + ALS         | 10+5+5=20 |                                     |

**Section A: Reading Comprehension**

- Very short answer and MCQ types questions:
- Two unseen passages (including poems) with a variety of questions including 4 marks for vocabulary such as word formation and inferring meaning. The total range of the 2 passages including a poem or a stanza, will be around 900-1000 words.
- 550-600 words in length (for note-making and summarising)
- An unseen poem of about 28-35 lines
- The passages could be of any one of the following types:
- Factual passages e.g., illustrations, description, reports
- Discursive passages involving opinion, e.g., argumentative, persuasive
- Literary passages e.g. extracts from fiction, biography, autobiography, travelogue, etc. In the case of a poem, the text may be shorter than the prescribed word limit.

**SECTION B: Writing Skills and Grammar****Writing**

Short Answer Questions: Based on poster and advertisement.

Long Answer Questions: Composition in the form of debate and speech.

**Grammar**

Different grammatical structures in meaningful contexts will be tested. Item types will include gap filling, sentence re-ordering and sentence transformation. The grammar syllabus will include tenses, clauses. These grammar areas will be tested using the following short answer type and MCQ type questions:

- Re-ordering of Sentences
- Transformation of sentences
- Gap Filling

|                                  |          |
|----------------------------------|----------|
| Internal Assessment -            | 20 Marks |
| Assessment of Listening Skills - | 05 Marks |
| Assessment of Speaking Skills -  | 05 Marks |
| Project Work -                   | 10 Marks |

## Class - XI

## ENGLISH

| Month        | Literature with art integrated activity                                                         | Subject enrichment activity                                     | Reading                                      | Writing                                                                 | Speaking                        | Listening                                                   |
|--------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------|
| <b>April</b> | Hornbill - The Portrait of a Lady<br>A Photograph                                               | Assignment on A Photograph                                      | Textbook reading and comprehension passage   | Poster Making                                                           | Introduction of an individual   | Listening test<br>The Portrait of A Lady                    |
| <b>May</b>   | Hornbill - We are not afraid to Die if...<br>Snapshots - The summer of a beautiful white horse  | Poster on Grandparent's Day,<br>assignment on 'A Photograph'    | Comprehension passages on Case Based Studies | Advertisements- Situation Vacant, Situation Wanted and For Sale         | 1-min topic presentation        | Unit Test - 1                                               |
| <b>June</b>  | Hornbill - The Laburnum Top<br>Snapshots - The Address                                          | Indefinite Tenses (Present, Past, Future)                       | Textbook reading                             |                                                                         |                                 |                                                             |
| <b>July</b>  | Hornbill - Discovering Tut Saga<br>Continues, The voice of the rain<br>Sanpshots - Mother's Day | Advertisements - Situation Vacant and Wanted, For Sale Practice | Note making                                  | Poster Making, Speech, Writing for Purchase<br>Classified Ads - Missing | Conversation between two        | insight building - An assignment from chapter 'The Address' |
| <b>Aug.</b>  | Hornbill - The Adventure, ALS                                                                   | Speech Writing, Continuous Tenses                               | Comprehension - Case based Study             | Revision                                                                | Revision                        | Revision                                                    |
| <b>Sept.</b> | <b>Revision and Practice</b>                                                                    |                                                                 |                                              |                                                                         |                                 |                                                             |
| <b>Oct.</b>  | Hornbill - Childhood, Silk Road                                                                 | Perfect and Perfect Continuous Tenses                           | Textbook reading and comprehension passage   | Advertisements- Educational, Lost and Found, Matrimony, To Let          | Introduction of an individual   | Listening test (Mother's Day)                               |
| <b>Nov.</b>  | Hornbill - Father to Son, Snapshots - Birth The Tale of Melon City                              | Clauses and Transformation of Sentences                         | Comprehension passages on Case Based Studies | Debate Writing                                                          | 1-min topic presentation        | Periodic Text - 2                                           |
| <b>Dec.</b>  | Revision                                                                                        | Assignments from Literature                                     | Practice                                     | Revision                                                                | Practice                        | Pre-board 1                                                 |
| <b>Jan.</b>  | Revision, ALS Practice                                                                          | Debate Writing Practice                                         | Note making practice                         | Revision                                                                | Conversation between two person | Insight building assignment from chapter                    |
| <b>Feb.</b>  | Revision                                                                                        | Speech Writing Practice                                         | Comprehension case based Study               | Revision                                                                | Revision                        | Final Examination                                           |
| <b>March</b> | <b>Practical Examination</b>                                                                    |                                                                 |                                              |                                                                         |                                 |                                                             |

**निर्धारित पुस्तकें : आरोह भाग-1 (पाठ्यपुस्तक), वितान भाग-1 (पूरक पाठ्य पुस्तक), अभिव्यक्ति और माध्यम**

| माह                    | साहित्य                                                                                 | अभिव्यक्ति और माध्यम                                                                                                                                                                                                         |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| अप्रैल                 | आरोह-1, कबीर, नमक का दरोगा,<br>वितान – भारतीय गायिकाओं में बेजोड़ लता मंगेशकर           | औपचारिक पत्र<br>प्रतिवेदन<br>जन संचार<br>डायरी लेखन                                                                                                                                                                          | छात्र कबीर जी के दोहे लयबद्ध तरीके से पढ़ना सीखेंगे                                                                                                                   |
| मई                     | आरोह – मियाँ नसीरुद्दीन, मीरा                                                           | अनुच्छेद, औपचारिक पत्र                                                                                                                                                                                                       | मीरा की अन्नय भक्ति पर चर्चा की जाएगी।                                                                                                                                |
| जून                    | ग्रीष्मावकाश                                                                            |                                                                                                                                                                                                                              |                                                                                                                                                                       |
| जुलाई                  | आरोह – विदाई संभाषण, गलता लोहा<br>वितान – राजस्थान की रजत बूंदें                        | संचार के रूप एवं शब्दकोश                                                                                                                                                                                                     | पानी के महत्व के विषय में वार्तालाप की जाएगी।                                                                                                                         |
| अगस्त                  | आरोह – सुमित्रानंदन पंत, भवानी प्रसाद मिश्रा, गलता लोहा                                 | स्ववृत्त लेखन<br>कार्य सूची                                                                                                                                                                                                  | छात्रों में देश भक्ति की भावना विस्तृत करने के लिए वीर रस की कविता लेखन होगा।                                                                                         |
| सितम्बर                | अर्धवार्षिक परीक्षा                                                                     |                                                                                                                                                                                                                              |                                                                                                                                                                       |
| इकाई परीक्षा पाठ्यक्रम | साहित्य – नमक का दरोगा मियाँ नसीरुद्दीन, कबीर दास<br>औपचारिक पत्र, प्रतिवेदन<br>जनसंचार | अर्धवार्षिक परीक्षा पाठ्यक्रम<br>1) कबीर<br>2) नमक का दरोगा<br>3) मियाँ नसीरुद्दीन<br>4) विदाई संभाषण<br>5) गलता लोहा<br>6) सुमित्रानंदन पंत<br>7) भवानी प्रसाद मिश्रा<br>8) भारतीय गायिकाओं...<br>9) राजस्थान की रजत बूंदें | अभिव्यक्ति और माध्यम<br>1) प्रतिवेदन<br>2) जन संचार<br>3) डायरी लेखन<br>4) संचार के रूप<br>5) शब्द कोश<br>6) कार्य सूचि<br>लेखन<br>1) अनुच्छेद 2) पत्र<br>3) स्ववृत्त |

| माह                                | साहित्य                                                                                                                                                                                                                                                          | अभिव्यक्ति और माध्यम                                                                                                                                                                                                                                                                                                                                                |                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| इकाई<br>परीक्षा<br>अंक<br>निर्धारण | साहित्य - 15 अंक<br>2 प्रश्न 1 अंक वाले - 2 अंक<br>2 प्रश्न 2 अंक वाले - 4 अंक<br>3 प्रश्न 3 अंक वाले - 9 अंक<br>अभिव्यक्ति और माध्यम - 15 अंक                                                                                                                   | अर्धवार्षिक परीक्षा अंक निर्धारण<br>अपठित गद्यांश - 10 अंक<br>अपठित पद्यांश - 8 अंक<br>रचनात्मक लेख - 6 अंक<br>अभिव्यक्ति और माध्यम - 16 अंक<br>पठित काव्यांश - 5 अंक<br>काव्य खंड पर आधारित प्रश्नोत्तर - 6 अंक<br>काव्य खंड पर दीर्घ प्रश्न - 4 अंक<br>पठित गद्यांश - 5 अंक<br>गद्यांश लघु प्रश्न - 6 अंक<br>दीर्घ उत्तर - 4 अंक<br>वितान से प्रश्नोत्तर - 10 अंक |                                                        |
| अक्टूबर                            | आरोह - स्मीति में बारिश,<br>त्रिलोचन, अप्पू के ढाई साल                                                                                                                                                                                                           | जन संचार, डायरी                                                                                                                                                                                                                                                                                                                                                     | छात्रों में डायरी लेखन<br>पर एक गोष्ठी करवाई<br>जाएगी। |
| नवम्बर                             | आरोह - रजनी, अक्क महादेवी                                                                                                                                                                                                                                        | स्ववृत्त, प्रतिवेदन                                                                                                                                                                                                                                                                                                                                                 | छात्र अपना स्ववृत्त<br>बनाएंगे।                        |
| दिसम्बर                            | वितान - आलो आँधरि<br>आरोह - गज़ल                                                                                                                                                                                                                                 | प्रेस विज्ञप्ति                                                                                                                                                                                                                                                                                                                                                     | छात्रों को प्रदत्तकार्य दिए<br>जाएंगे।                 |
| जनवरी/<br>फरवरी                    | प्री-बोर्ड परीक्षा                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |                                                        |
| मार्च                              | वार्षिक परीक्षा                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                     |                                                        |
| वार्षिक<br>परीक्षा<br>पाठ्यक्रम    | कबीर, नमक का दरोगा, मियाँ<br>नसीरुद्दीन, विदाई संभाषण,<br>गलता लोहा, सुमित्रानंदन पंत,<br>भवानी प्रसाद मिश्रा, भारतीय<br>गायिकाओं में लता, राजस्थान<br>की रजत बूंदें, स्मिति में बारिश,<br>त्रिलोचन, अप्पू के ढाई साल,<br>रजनी, अक्क महादेवी, आलो<br>आँधरि, गज़ल | प्रतिवेदन, जन संचार, डायरी लेखन,<br>संचार के रूप, शब्दकोश, कार्य<br>सूचि, प्रेस विज्ञप्ति                                                                                                                                                                                                                                                                           | 1) अनुच्छेद<br>2) पत्र<br>3) स्ववृत्त                  |

| माह             | साहित्य                                                                                                                                                                                                                                                                                                                                                                                                                | अभिव्यक्ति और माध्यम |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| अंक<br>निर्धारण | <p>वार्षिक परीक्षा अंक निर्धारण</p> <p>अपठित गद्यांश - 10 अंक</p> <p>अपठित पद्यांश - 8 अंक</p> <p>रचनात्मक लेख - 6 अंक</p> <p>अभिव्यक्ति और माध्यम - 16 अंक</p> <p>पठित काव्यांश - 5 अंक</p> <p>काव्य खंड पर प्रश्नोत्तर - 6 अंक</p> <p>काव्य खंड पर दीर्घ प्रश्नोत्तर - 4 अंक</p> <p>पठित गद्यांश - 5 अंक</p> <p>गद्यांश लघु प्रश्न - 6 अंक</p> <p>गद्यांश दीर्घ प्रश्न - 4 अंक</p> <p>वितान प्रश्नोत्तर - 10 अंक</p> |                      |  |

ਲਿਖਤੀ ਪਰੀਖਿਆ ਲਈ ਸਮਾਂ 3 ਘੰਟੇ    ਲਿਖਤੀ ਪਰੀਖਿਆ - 80 ਅੰਕ    ਆਂਤਰਿਕ ਮੁਲਾਂਕਣ - 20 ਅੰਕ    ਕੁੱਲ - 100 ਅੰਕ

| Month              | ਪਾਠ                                                                                                                                                                                                                                                            | ਵਿਆਕਰਨ                                                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ਅਪ੍ਰੈਲ             | ਦੰਤ ਕਥਾ - ਪੂਰਨ ਭਗਤ<br>ਪ੍ਰੀਤ ਕਥਾ - ਹੀਰ ਰਾਂਝਾ<br>ਲੋਕਗੀਤ - ਸੁਹਾਗਾ (1-4)                                                                                                                                                                                           | ਮੁਹਾਵਰੇ (1-15)<br>ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ - (A, B, C)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (A, B, C)<br>ਬੈਂਕ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-8)      |
| ਮਈ                 | ਦੰਤ ਕਥਾ - ਰਾਜਾ ਰਸਾਲੂ<br>ਲੋਕਗੀਤ - ਲੰਮੀਆਂ ਬੋਲੀਆਂ (1-4)<br>ਲੋਕਗੀਤ - ਘੋੜੀਆਂ (1-3)                                                                                                                                                                                  | ਪੱਤਰ - ਸੰਪਾਦਕੀ<br>ਲੇਖ - ਵਿਚਾਰ ਪ੍ਰਧਾਨ<br>ਮੁਹਾਵਰੇ (16-30)<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (D, E, F)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (D, E, F)<br>ਰੇਲਵੇ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-8) |
| ਜੂਨ                | ਗਰਮੀ ਦੀਆਂ ਛੁੱਟੀਆਂ                                                                                                                                                                                                                                              | ਪ੍ਰੋਜੈਕਟ<br>1) ਸਮਾਜਿਕ ਕੁਰੀਤੀਆਂ (ਦਾਜ਼, ਨਸ਼ੇ, ਭਰੂਣ-ਹੱਤਿਆ)<br>2) ਪੰਜਾਬੀ ਪਹਿਰਾਵਾ<br>3) ਪੰਜਾਬੀ ਰਹਿਣ-ਸਹਿਣ<br>4) ਵਿਰਾਸਤੀ ਖੇਡਾਂ                                                       |
| ਜੁਲਾਈ              | ਪ੍ਰੀਤ ਕਥਾ - ਮਿਰਜਾ ਸਾਹਿਬਾ<br>ਲੋਕ ਗੀਤ - ਸਿੱਠਣੀਆਂ                                                                                                                                                                                                                 | ਮੁਹਾਵਰੇ (31-40)<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (G, H, I)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (G, H, I)<br>ਡਾਕ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-5)                                           |
| ਅਗਸਤ               | ਲੋਕਗੀਤ - ਢੋਲਾ (1-3)<br>ਲੋਕਗੀਤ - ਬੋਲੀਆਂ (ਲੰਮੀਆਂ) (1-4)                                                                                                                                                                                                          | ਪੱਤਰ - ਸੰਪਾਦਕੀ ਇਸ਼ਤਿਹਾਰ<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (J, K, L, M)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (J, K, L, M)<br>ਕੰਪਿਊਟਰੀ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-8)                        |
| ਸਤੰਬਰ              | ਦੁਹਰਾਈ ਛਿਮਾਹੀ ਪਰੀਖਿਆ                                                                                                                                                                                                                                           |                                                                                                                                                                               |
| PT-1               | ਸਾਹਿਤ<br>ਦੰਤ ਕਥਾ - ਪੂਰਨ ਭਗਤ<br>ਲੋਕਗੀਤ - ਸੁਹਾਗਾ (1-3), ਘੋੜੀਆਂ (1-3)                                                                                                                                                                                             | ਮੁਹਾਵਰੇ (1-15)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ - A, B<br>ਬੈਂਕ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-8)                                                                           |
| Term - 1<br>ਸਿਲੇਬਸ | ਅਡਵਾਂਸ ਪੜਨ ਕੌਸ਼ਲ<br>1) ਅਣਡਿੱਠਾ ਪੈਰਾ<br>2) ਅਖਬਾਰਾਂ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ<br>3) ਲੇਖ ਰਚਨਾ - ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ<br>4) ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ<br>5) ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ<br>6) ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਬੀਮਾ ਸੇਵਾਵਾਂ ਤੇ ਕੰਪਿਊਟਰ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ |                                                                                                                                                                               |

| Month               | ਪਾਠ                                                                                                                                                                                                                                                                                                                              | ਵਿਆਕਰਨ                                                                                                                                                                                                                                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Term - I<br>ਸਿਲੇਬਸ  | 7) ਮੁਹਾਵਰੇ<br>8) ਇਸ਼ਤਿਹਾਰ/ਸੱਦਾ ਪੱਤਰ (ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ)<br>9) ਲੋਕਗੀਤਾਂ (ਸੁਹਾਗ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ)<br>ਚੋਣਵੀਆਂ ਸਤਰਾਂ ਤੇ ਅਧਾਰਿਤ<br>10) ਲੋਕਗੀਤਾਂ (ਬੋਲੀਆਂ, ਢੋਲਾ) ਚੋਣਵੀਆਂ ਸਤਰਾਂ<br>'ਤੇ ਅਧਾਰਿਤ<br>11) ਲੋਕਗੀਤਾਂ ਤੇ 40-50 ਸ਼ਬਦਾਂ ਵਿੱਚ ਸੰਖੇਪ<br>ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ<br>12) ਦੰਤ ਕਥਾਵਾਂ ਤੇ ਪ੍ਰੀਤ-ਕਥਾਵਾਂ ਦੇ ਅਧਾਰ ਤੇ 25-<br>30 ਸ਼ਬਦਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ |                                                                                                                                                                                                                                                                                                                    |
| ਅਕਤੂਬਰ              | ਦੰਤ ਕਥਾ - ਦੁੱਲਾ ਭੱਟੀ<br>ਲੋਕਗੀਤ - ਸੁਹਾਗ (5-8)                                                                                                                                                                                                                                                                                     | ਮੁਹਾਵਰੇ (41-55)<br>ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (1-5)<br>ਸੱਦਾ ਪੱਤਰ - ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (S, T, U)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (S, T, U)                                                                                                                                                                   |
| ਨਵੰਬਰ               | ਲੋਕਗੀਤ - ਟੱਪੇ<br>ਲੋਕਗੀਤ - ਘੋੜੀਆਂ (4-5)                                                                                                                                                                                                                                                                                           | ਮੁਹਾਵਰੇ (56-70)<br>ਬੀਮਾ ਸੇਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (6-10)<br>ਸੱਦਾ ਪੱਤਰ<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (V, W)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (V, W)                                                                                                                                                                       |
| ਦਸੰਬਰ               | ਲੋਕਗੀਤ - ਢੋਲਾ (4-5)<br>ਲੋਕਗੀਤ - ਬੋਲੀਆਂ ਲੰਮੀਆਂ (5-8)                                                                                                                                                                                                                                                                              | ਮੁਹਾਵਰੇ (71-80)<br>ਪੱਤਰ - ਸੰਪਾਦਕੀ<br>ਲੇਖ - ਵਿਚਾਰ ਪ੍ਰਧਾਨ ਤੇ ਆਮ ਵਿਸ਼ੇ<br>ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (X, Y, Z)<br>ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (X, Y, Z)                                                                                                                                                                 |
| ਜਨਵਰੀ/<br>ਫਰਵਰੀ     | ਪ੍ਰੀ ਬੋਰਡ                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
| ਮਾਰਚ                | ਸਲਾਨਾ ਪਰੀਖਿਆ                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                    |
| ਪ੍ਰੀ-ਬੋਰਡ           | ਪਰੀਖਿਆ                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                    |
| Term - II<br>ਸਿਲੇਬਸ | ਅਭਵਾਂਸ ਪੜ੍ਹਨ ਕੌਸ਼ਲ<br>1) ਅਣਡਿੱਠਾ ਪੈਰੂਾ<br>2) ਅਖਬਾਰਾਂ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ<br>3) ਲੇਖ ਰਚਨਾ<br>ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ<br>4) ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ<br>5) ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ<br>6) ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਬੀਮਾ ਸੇਵਾਵਾਂ ਤੇ ਕੰਪਿਊਟਰ ਸੇ<br>ਵਾਵਾਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ<br>7) ਮੁਹਾਵਰੇ<br>8) ਇਸ਼ਤਿਹਾਰ/ਸੱਦਾ ਪੱਤਰ                    | ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ<br>9) ਲੋਕ-ਗੀਤਾਂ (ਸੁਹਾਗ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ, ਟੱਪਾ)<br>ਚੋਣਵੀਆਂ ਸਤਰਾਂ ਤੇ ਅਧਾਰਿਤ<br>10) ਲੋਕ ਗੀਤਾਂ (ਬੋਲੀਆਂ, ਢੋਲਾ, ਮਾਹੀਆਂ, ਬੁਝਾਰਤਾਂ)<br>ਚੋਣਵੀਆਂ ਸਤਰਾਂ ਤੇ ਅਧਾਰਿਤ<br>11) ਲੋਕਗੀਤਾਂ ਤੇ 40-50 ਸ਼ਬਦਾਂ ਵਿੱਚ ਸੰਖੇਪ ਉੱਤਰਾਂ<br>ਵਾਲੇ ਪ੍ਰਸ਼ਨ<br>12) ਦੰਤ ਕਥਾਵਾਂ ਤੇ ਪ੍ਰੀਤ-ਕਥਾਵਾਂ ਦੇ ਅਧਾਰ ਤੇ 25-30<br>ਸ਼ਬਦਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ |

ਲਿਖਤੀ ਪਰੀਖਿਆ - 80 ਅੰਕ  
 ਅੰਤਰਿਕ ਮੁਲਾਂਕਣ - 20 ਅੰਕ  
 ਕੁੱਲ - 100 ਅੰਕ

- 1) ਅਡਵਾਂਸ ਪੜ੍ਹਨ ਕੌਸ਼ਲ (23) ਅੰਕ  
 ਜਾਣਕਾਰੀ ਭਰਪੂਰ ਇੱਕ ਅਣਡਿੱਠਾ ਪੈਰਾ ਤੇ ਉਸ ਨੂੰ ਸੰਬੰਧਿਤ 8 ਪ੍ਰਸ਼ਨ (1 x 8 = 8)
  - 2) ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਲਿਖਣ ਕੌਸ਼ਲ
    - 1) ਅਖਬਾਰਾਂ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਪੱਤਰ (ਚੋਣ ਆਧਾਰਿਤ) 7
    - 2) ਸਮਾਜਿਕ, ਸੱਭਿਆਚਾਰਕ ਅਤੇ ਮਨੋਰੰਜਨ ਵਿਸ਼ੇ ਸੰਬੰਧੀ 200-250 ਸ਼ਬਦਾਂ ਵਿੱਚ ਲੇਖ 8
  - 3) ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪੰਜਾਬੀ ਵਿੱਚ ਅਨੁਵਾਦ (ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ ਪਾਠ-ਪੁਤਕ ਦੇ ਆਧਾਰ ਤੇ) (28) ਅੰਕ
    1. ਦਫ਼ਤਰੀ ਸ਼ਬਦਾਵਲੀ (ਅਤਿ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ) (ਚੋਣ ਆਧਾਰਿਤ) 5 x 1=5
    2. ਵੱਖ-ਵੱਖ ਵਿਸ਼ਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਸ਼ਬਦਾਵਲੀ (ਅਤਿ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ) ਚੋਣ ਆਧਾਰਿਤ 5 x 1=5
    3. ਬੈਂਕ, ਰੇਲਵੇ, ਡਾਕ, ਬੀਮਾ-ਸੇਵਾਵਾਂ ਤੇ ਕੰਪਿਊਟਰ ਨਾਲ ਸੰਬੰਧਿਤ ਵਾਕ (ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ) (ਚੋਣ ਆਧਾਰਿਤ) 4 x 2=8
  - 4) ਮੁਹਾਵਰੇ (ਅਰਥ ਸਪਸ਼ਟ ਕਰਦੇ ਹੋਏ ਵਾਕ ਬਣਾਉਣਾ) ਚੋਣ ਆਧਾਰਿਤ 1 x 5=5
  - 5) ਇਸ਼ਤਿਹਾਰ/ਸੱਦਾ ਪੱਤਰ (ਚੋਣ ਆਧਾਰਿਤ) (50 ਸ਼ਬਦਾਂ ਵਿੱਚ) 5
- ਪੰਜਾਬੀ ਲੋਕ-ਸਾਹਿਤ (ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ 11 ਪਾਠ ਪੁਸਤਕ ਤੇ ਆਧਾਰਿਤ) (29) ਅੰਕ
- 1) ਲੋਕ ਗੀਤਾਂ (ਸੁਹਾਗਾ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ, ਟੱਪਾ) ਵਿੱਚੋਂ ਬਹੁਵਿਕਲਪੀ ਪ੍ਰਸ਼ਨ 6 x 1=6
  - 2) ਲੋਕ ਗੀਤਾਂ (ਬੋਲੀਆਂ, ਢੋਲਾ, ਮਾਹੀਆ, ਬੁਝਾਰਤਾਂ) ਵਿੱਚੋਂ ਬਹੁਵਿਕਲਪੀ ਪ੍ਰਸ਼ਨ 6 x 1=6
  - 3) ਲੋਕ ਗੀਤਾਂ 'ਤੇ 40-50 ਸ਼ਬਦਾਂ ਵਿੱਚ ਸੰਖੇਪ ਉੱਤਰ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (ਚੋਣ ਆਧਾਰਿਤ) 3 x 3=9
  - 4) ਦੰਤ ਕਥਾਵਾਂ ਅਤੇ ਪ੍ਰੀਤ ਕਥਾਵਾਂ 'ਤੇ 25-30 ਸ਼ਬਦਾਂ ਵਿੱਚ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (ਚੋਣ ਆਧਾਰਿਤ) 4 x 2=8

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Practical                                                                                                                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April  | <b>Unit - I Physical World and Measurement</b><br>Ch-1 Units and Measurements <ul style="list-style-type: none"> <li>• Need, unit for measurement</li> <li>• Systems of Units</li> <li>• Fundamental and derived units</li> <li>• Significant figures and determining uncertainty in the result</li> <li>• Dimensional analysis</li> </ul> <b>Unit - II Kinematics</b><br>Ch-2<br>Motion in a straight line<br>Elementary concepts of differentiation and integration<br>Uniform and non uniform motion<br>Instantaneous velocity and average velocity<br>Uniformly accelerated motion<br>Velocity - time and position-time graphs<br>Relations for uniformly accelerated motion (graphical treatment and calculus treatment) | <b>Experiment - 1</b><br>To measure diameter of a small spherical body and to measure internal diameter and depth of a given beaker using Vernier Callipers and hence find its volume. |
| May    | <b>Unit - II Kinematics (continued)</b><br>Ch-3 Motion in a Plane <ul style="list-style-type: none"> <li>• Scalar and vector quantities</li> <li>• Position and displacement vectors</li> <li>• Equality, addition and subtraction of vectors</li> <li>• Unit vector</li> <li>• Resolution of a vector in a plane</li> <li>• Rectangular components</li> </ul> + Revision PT-1                                                                                                                                                                                                                                                                                                                                                | <b>Experiment 2</b><br>To measure diameter of a given wire and thickness of a given sheet using screw gauge.                                                                           |
| June   | <b>Unit - II Kinematics</b><br>Ch-3 Motion in a Plane (continued) <ul style="list-style-type: none"> <li>• Scalar and Vector product</li> <li>• Motion in a plane</li> <li>• Uniform velocity and uniform acceleration</li> <li>• Projectile Motion</li> <li>• Uniform circular motion</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        |
| July   | <b>Unit - III Laws of Motion</b><br>Ch-4 Laws of Motion <ul style="list-style-type: none"> <li>• Force, Inertia</li> <li>• Newton's laws of motion</li> <li>• Impulse</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Experiment 3</b><br>To determine volume of an irregular lamina using screw gauge.                                                                                                   |

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Practical                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| July   | <ul style="list-style-type: none"> <li>• Law of conservation of linear momentum and its application</li> <li>• Equilibrium of concurrent forces</li> <li>• Friction and its types</li> <li>• Dynamics of Uniform circular motion</li> <li>• Centripetal force</li> <li>• Vehicle on a level circular road, a banked road</li> </ul> <b>Unit - IV Work, Energy and Power</b><br>Ch-5 Work, Energy and Power <ul style="list-style-type: none"> <li>• Work</li> <li>• Kinetic Energy</li> <li>• Work-energy theorem</li> <li>• Power</li> <li>• Potential energy of a spring</li> <li>• Conservative forces, non-conservative forces</li> <li>• Motion in a vertical circle</li> <li>• Elastic and inelastic collisions in one and two dimensions.</li> </ul>       | <b>Experiment 4</b><br>Using a simple pendulum, plot its $L-T^2$ graph and use it to find the effective length of second's pendulum |
| Aug.   | <b>Unit-V Motion of system of particles and Rigid body</b><br>Ch-6 System of particles and Rotational Motion <ul style="list-style-type: none"> <li>• Centre of mass</li> <li>• Momentum conservation and Centre of mass motion</li> <li>• Centre of mass of a rigid body</li> <li>• Moment of a force</li> <li>• torque</li> <li>• Angular momentum</li> <li>• Law of conservation of angular momentum and its applications.</li> <li>• Equilibrium of rigid bodies</li> <li>• Rigid body rotation</li> <li>• Equations of rotational motion</li> <li>• Comparison of linear and rotational motions</li> <li>• Moment of inertia</li> <li>• Radius of gyration</li> <li>• Values of moments of inertia for simple geometrical objects (no derivation)</li> </ul> | <b>Experiment 5</b><br>To find the force constant of a helical spring by plotting a graph between load and extension.               |
| Sept.  | <b>Unit VI Gravitation</b><br>Ch-7 Gravitation <ul style="list-style-type: none"> <li>• Kepler's laws of planetary motion</li> <li>• Universal law of gravitation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                     |

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Practical                                                                                                                                                                                                                                                  |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sept.  | <ul style="list-style-type: none"> <li>Acceleration due to gravity and its variation with altitude and depth</li> <li>Gravitational potential energy</li> <li>Gravitational potential</li> <li>Escape speed</li> <li>Orbital velocity</li> </ul> + Revision of Term 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                            |
| Term 1 | Unit - I<br>Unit - II<br>Unit - III<br>Unit - IV + Unit V (Till Motion of Centre of mass)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Experiment - 1<br>Experiment - 2<br>Experiment - 3<br>Experiment - 4                                                                                                                                                                                       |
| Oct.   | <b>Unit VII Properties of Bulk Matter</b><br>Ch-8 Mechanical Properties of solids <ul style="list-style-type: none"> <li>Elasticity</li> <li>Stress - strain relationship</li> <li>Hooke's law</li> <li>Modulus of elasticity (qualitative idea only)</li> <li>Poisson's ratio</li> <li>Elastic energy</li> </ul> Ch-9 Mechanical Properties of fluids <ul style="list-style-type: none"> <li>Pressure due to a fluid column</li> <li>Pascal's law and its applications</li> <li>Effect of gravity on fluid pressure</li> <li>Viscosity</li> <li>Stokes' law</li> <li>Terminal velocity</li> <li>Streamline, turbulent flow</li> <li>Critical velocity</li> <li>Bernoulli's theorem and its applications</li> <li>Surface energy and surface tension</li> <li>Angles of contact</li> <li>Excess of pressure across a curved surface</li> <li>Capillary rise, drops, bubbles (Applications of surface tension)</li> </ul> Ch-10 Thermal properties of matter <ul style="list-style-type: none"> <li>Heat, temperature</li> <li>Thermal expansion;</li> <li>Anomalous expansion of water</li> </ul> | <b>Experiment 6</b><br>To determine Young's modulus of elasticity of the material of a given wire.<br><b>Experiment 7</b><br>To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. |
| Nov.   | <b>Unit VIII Thermodynamics</b><br>Ch-11 Thermodynamics <ul style="list-style-type: none"> <li>Thermal equilibrium</li> <li>Zeroth law of thermodynamics</li> <li>Heat, temperature work and internal energy</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Experiment 8</b><br>To find the speed of sound in air at room temperature using a resonance tube by two resonance positions                                                                                                                             |

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Practical |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Nov.   | <ul style="list-style-type: none"> <li>First law of thermodynamics</li> <li>Second law of thermodynamics and Thermodynamic state va.....</li> <li>Isothermal, adiabatic, reversible, irreversible, and cyclic processes</li> </ul> <b>Unit IX Behaviour of perfect gases and kinetic theory of gases</b><br>Ch-12 Kinetic Theory <ul style="list-style-type: none"> <li>Equation of state of a perfect gas</li> <li>Work done in compressing a gas</li> <li>Kinetic theory of gases - assumptions, concept of pressure</li> <li>Kinetic interpretation of temperature;</li> <li>Rms speed of gas molecules;</li> <li>Degrees of freedom</li> <li>Law of equi-partition of energy (statement only) and application to specific heat capacities of gases</li> <li>Mean free path</li> <li>Avogadro's number + Revision of Pre-Board</li> </ul> |           |
| Dec.   | <b>Unit X Oscillations and Waves</b><br>Ch-13 Oscillations <ul style="list-style-type: none"> <li>Periodic motion</li> <li>Simple harmonic motion and its equations of motion, uniform circular motion and equation</li> <li>Phase</li> <li>Oscillations of a loaded spring</li> <li>Restoring force and force constant</li> <li>Energy in S.H.M.</li> <li>Simple pendulum</li> </ul> Ch-14 Waves <ul style="list-style-type: none"> <li>Transverse and longitudinal waves</li> <li>Speed of travelling wave</li> <li>Displacement relation for a progressive wave</li> <li>Principle of superposition of wave</li> <li>Principle of superposition of waves</li> <li>Reflection of waves</li> <li>Standing waves in strings and organ pipes</li> <li>Fundamental mode and harmonics</li> <li>Beats</li> </ul>                                |           |
| Jan.   | Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
| Feb.   | Final Exams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
| Mar.   | Final Exams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |

| Course Structure<br>(Theory)   |                                                        |                   |
|--------------------------------|--------------------------------------------------------|-------------------|
| Time : 3hrs.<br>Max Marks : 70 |                                                        |                   |
| Unit                           | Name of Unit                                           | Mark Distribution |
| Unit I                         | Physical world and Measurement                         | 23                |
| Unit II                        | Kinematics                                             |                   |
| Unit III                       | Laws of Motion                                         |                   |
| Unit IV                        | Work, energy and Power                                 | 17                |
| Unit V                         | Motion of System of Particles                          |                   |
| Unit VI                        | Gravitation                                            |                   |
| Unit VII                       | Properties of Bulk Matter                              | 20                |
| Unit VIII                      | Thermodynamics                                         |                   |
| Unit IX                        | Behaviour of Perfect gases and Kinetic theory of gases |                   |
| Unit X                         | Oscillations & Waves                                   | 10                |
|                                | <b>Total</b>                                           | <b>70</b>         |

| Practical                                |           |
|------------------------------------------|-----------|
| 1. Two experiments one from each section | 7+7       |
| 2. Practical Record                      | 5         |
| 3. One Activity                          | 3         |
| 4. Investigatory Project                 | 3         |
| 5. Viva                                  | 5         |
| <b>Total</b>                             | <b>30</b> |

| Months | Unit                                                                                                                                                                                                                                                                                                                                                                                                                     | Activity                                                                                                                                                    | Practical                                                                                                                                                                                                                                              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April  | <b>Unit-I Some basic concepts of chemistry</b> <ul style="list-style-type: none"> <li>• Introduction laws of chemical combination</li> <li>• Percentage composition</li> <li>• Empirical and Molecular formula</li> <li>• Mole concept Stoichiometric calculations</li> <li>• Limiting reagent</li> <li>• Concentration terms</li> </ul>                                                                                 | Numerical Problems                                                                                                                                          | 1. Preparation of standard solution of oxalic acid<br>2. Preparation of standard solution of sodium carbonate                                                                                                                                          |
| May    | <b>Unit-II Structure of atom</b> <ul style="list-style-type: none"> <li>• Discovery and properties of sub atomic particles</li> <li>• Atomic models</li> <li>• EM Spectrum</li> <li>• Quantum Numbers</li> </ul> <b>Unit-III Classification of Elements and periodicity in properties</b> <ul style="list-style-type: none"> <li>• Need for classification</li> <li>• Mendeleev's and modern's periodic table</li> </ul> | <ul style="list-style-type: none"> <li>• Numerical Practice</li> <li>• Drawing of shapes of orbital</li> <li>• Electronic configuration practice</li> </ul> | 1. Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid<br>2. Determination of strength of a given solution of HCl by titrating it against standard solution of Sodium carbonate |
| PT-1   | Unit-1 Some Basic Concepts of Chemistry<br>Unit-2 Structure of atom                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                                                                                                                                                                                                                                        |
| June   | <b>Unit-III Classification of Elements and periodicity in properties (contd.)</b> <ul style="list-style-type: none"> <li>• Periodic trends in physical and chemical properties</li> </ul>                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>• Identification of periodic table classification of elements in different blocks</li> </ul>                         | Project work - (summer vacation)                                                                                                                                                                                                                       |
| July   | <b>Unit-IV Chemical Bonding and molecular structure</b> <ul style="list-style-type: none"> <li>• Introduction lewis Kossel approach</li> <li>• Covalent, ionic and coordinate bond</li> <li>• VSEPR Theory</li> <li>• VBT Theory</li> <li>• MOT Theory</li> <li>• Hydrogen bonding</li> </ul>                                                                                                                            | <ul style="list-style-type: none"> <li>• Worksheet</li> </ul>                                                                                               | Crystallization of impure sample of potash alum                                                                                                                                                                                                        |

| Months          | Unit                                                                                                                                                                                                                                                                                                                                                              | Activity                                                                                               | Practical                                                                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| July            | <b>Unit-VII Redox Reactions</b> <ul style="list-style-type: none"> <li>Classical and Modern concept of redox</li> <li>Oxidation number</li> <li>Types of redox reaction</li> <li>Balancing methods of redox</li> </ul>                                                                                                                                            |                                                                                                        |                                                                                                                                                           |
| August          | <b>Unit-VIII Organic chemistry - Basic Principles and techniques</b> <ul style="list-style-type: none"> <li>Introduction and classification of organic compounds</li> <li>Homologous series</li> <li>Functional groups</li> <li>Nomenclature</li> <li>Isomerism and types</li> <li>Electronic effects</li> </ul>                                                  | <ul style="list-style-type: none"> <li>Functional group identification</li> </ul>                      | 1. Qualitative analysis (Determination of cation and anion in a given salt.<br>2. To study the effect of change of concentration on Chemical Equilibrium. |
| Sept.           | <ul style="list-style-type: none"> <li>Unit-IX Hydrocarbons</li> </ul>                                                                                                                                                                                                                                                                                            |                                                                                                        | Qualitative analysis (Determination of cation and anion in a given salt)                                                                                  |
| Term-1<br>Sept. | Unit-1 Some Basic concepts of Chemistry<br>Unit-2 Structure of atom<br>Unit-3 Classification of elements and periodicity in properties<br>Unit-4 Chemical Bonding and Molecular Structure<br>Unit-7 Redox Reactions                                                                                                                                               |                                                                                                        |                                                                                                                                                           |
| Oct.            | <b>Unit-V Chemical Thermodynamics</b> <ul style="list-style-type: none"> <li>Introduction and thermodynamic terms</li> <li>First law of thermodynamics</li> <li>Internal energy and enthalpy</li> <li>Hess law</li> <li>Spontaneous and non spontaneous process</li> <li>Entropy</li> <li><math>\Delta G</math> - spontaneity and equilibrium constant</li> </ul> | <ul style="list-style-type: none"> <li>Numerical Practice</li> <li>Sign convention activity</li> </ul> | Revision practicals                                                                                                                                       |
| Nov.            | <b>Unit-VI Equilibrium</b> <ul style="list-style-type: none"> <li>Physical Equilibrium</li> <li>Chemical Equilibrium</li> </ul>                                                                                                                                                                                                                                   |                                                                                                        |                                                                                                                                                           |
| Dec.            | Revision                                                                                                                                                                                                                                                                                                                                                          |                                                                                                        |                                                                                                                                                           |
| Jan.            | Revision                                                                                                                                                                                                                                                                                                                                                          |                                                                                                        |                                                                                                                                                           |
| Feb.            | Final Exams                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |                                                                                                                                                           |

| Grade 11<br>Biology (044) |                                               |           |
|---------------------------|-----------------------------------------------|-----------|
| S.No.                     | Units                                         | Marks     |
| I.                        | Diversity of living organism                  | 15        |
| II.                       | Structural Organisation in plants and animals | 10        |
| III.                      | Cell- Structure and function                  | 15        |
| IV.                       | Plant Physiology                              | 12        |
| V.                        | Animal Physiology                             | 18        |
|                           | <b>Total</b>                                  | <b>70</b> |
|                           | <b>Practical</b>                              | <b>30</b> |

| S.No. | Typology of Questions                   | %Weightage |
|-------|-----------------------------------------|------------|
| 1.    | Demonstrate Knowledge and Understanding | 50%        |
| 2.    | Application of Knowledge/Concepts       | 30%        |
| 3.    | Formulate, Analyze, Evaluate and Create | 20%        |
|       | <b>Total</b>                            | <b>100</b> |

## Class - XI

## BIOLOGY (044)

| Months | Chapters                                                                                                                | Listening Activities                                                                           | Speaking/Oral Activities                                                                 | Reading Tasks                                                                       | Writing Task                                                      | Art Integrated Activity & Practical                                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April  | <b>UNIT-5 (Human Physiology)</b><br>Ch-14 (Breathing and exchange of gases)<br>Ch-15 (Body fluids and circulation)      | > Lecture on Respiratory system, Circulation)                                                  | >PK testing- Respiratory organs in animals, Composition of blood                         | > Case study on Respiratory disorders<br>> Disorders of Circulatory system          | > Worksheet on Respiration<br>> Worksheet on Circulation          | > Structure of human heart<br>> Parts of compound microscope                                                                                                          |
| May    | <b>UNIT-5 (Human Physiology)</b><br>Ch-16 (Excretory Products and their elimination)<br>Ch-17 (Locomotion and movement) | > Lecture on Excretory system<br>> Lecture on Locomotion                                       | > Group discussion on Mode of excretion<br>> Group discussion on Types of movement       | > Regulation of kidney function, urine formation<br>> Muscle contraction, Disorders | > Worksheet on Excretion and Movement                             | > Lab visit (Representation of Human Skeleton model)<br>> Test of Presence of urea, sugar, albumin, bile salts in urine                                               |
| June   | <b>UNIT-5 (Human Physiology)</b><br>Ch-18 (Neural control and coordination & Chemical coordination and integration)     | > Lecture on generation and conduction of nerve impulse<br>> Lecture on Human endocrine system | > PK Testing/ class discussions on nervous system                                        | > Case study on endocrine secretion                                                 | Worksheet on Coordination                                         | > Tabulate representation of endocrine glands and role of hormones                                                                                                    |
| July   | <b>UNIT-5 (Plant Physiology)</b><br>Ch-11 (Photosynthesis in higher plants)<br>Ch-12 (Respiration in plants)            | > Lecture on Photosynthesis<br>Lecture on Respiration                                          | > PK Testing of autotrophic nutrition<br>> Group discussion on Cellular respiration      | > Cyclic and non cyclic photophosphorylation                                        | > C3 and C4 pathway<br>> Glycolysis, Fermentation, TCA cycle, ETS | > C3 and C4 pathway<br>> Glycolysis, Fermentation, TCA cycle, ETS<br>> Separation of plant pigment through chromatography<br>> Study of rate of respiration of leaves |
| Aug.   | <b>UNIT-5 (Plant Physiology, Cell Structure and functions)</b><br>Ch-13 (Plant growth and development)<br>Ch-08 (Cell)  | > Lecture on PGR, Cell theories, Organelles)                                                   | > PK testing of phytohormones<br>> Group discussions on Cell structure                   | > Fluid mosaic model, phases of plant growth                                        | > Worksheet on PGR, cell                                          | > Structural representation of cell organelles<br>> Test for the presence of sugar, starch, proteins and fats in suitable plants and animal material                  |
| Sept.  | <b>UNIT-3 (Cell Structure and functions)</b><br>Ch-10 (Cell cycle and cell division)<br>Ch-9 (Biomolecule)              | > Lecture on Cell division<br>> Lecture on Biomolecule                                         | > PK testing of mitosis and meiosis<br>> Group discussion on Nucleic acid and metabolism | > Enzyme- Types and Properties                                                      | > Worksheet on biomolecules<br>> Worksheet on cell division       | > Chart representation (Mitosis & Meiosis)<br>> Mitosis in onion root tip and animal cells from permanent slides                                                      |

# Class - XI

# BIOLOGY (044)

| Months           | Chapters                                                                                                                                                                                                                                                     | Listening Activities                                                                       | Speaking/Oral Activities                                                                                            | Reading Tasks                                 | Writing Task          | Art Integrated Activity & Practical                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PT               | <b>UNIT-5 (Human Physiology)</b><br>Ch-17 (Breathing and exchange of gases)<br>Ch-18 (Body fluids and circulation)                                                                                                                                           |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Half Yearly Exam | <b>UNIT-3 (Cell structure and function)</b><br><b>UNIT-4 (Plant Physiology)</b><br><b>UNIT-5 (Human Physiology)</b>                                                                                                                                          |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Oct.             | <b>UNIT-2 (Structural organization in plants and animals)</b><br>Ch-5 (Morphology of flowering plants)<br>Ch-6 (Anatomy of flowering plants)                                                                                                                 | > Lecture on parts of flowering plants                                                     | > PK testing of floral parts<br>> Group discussion on Plant tissue system                                           | > Inflorescence, Anatomy of monocot and dicot | > Worksheets and MCQs | > Dissection of flower Preparation and study of dicot and monocot roots and stems<br>> Study of distribution of stomata on upper and lower surface of leaves<br>> Different types of inflorescence |
| Nov.             | <b>UNITS-2,1 (Structure organization in plants and animals, Diversity of living organisms)</b><br>Ch-7 (Structural organization in animals)<br>Ch-1 (The living world)<br>Ch-2 (Biological classification)<br>Ch-3 (Plant Kingdom)<br>Ch-4 (Animals Kingdom) | > Lecture on Structural organization in frog<br>> Lecture on diversity in living organisms | > Group discussion on Animal tissue morphology, anatomy of different system of frog<br>> PK testing of Algae, virus | > Salient features of Plant, Animal Kingdom   | > Worksheets and MCQs | > Spotting - Specimens/ Slides/Modes and Identification with reasons-Bacteria, Spirogyra, Rhizopus, Mushroom Yeast, Moss, Fern, Pine, Lichen<br>> Virtual specimens, slides, models.               |
| Dec.             | <b>Pre-Board Exam</b>                                                                                                                                                                                                                                        |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Jan.             | <b>Revision of Syllabus for Final Examination</b>                                                                                                                                                                                                            |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Feb.             | <b>Final Examination</b>                                                                                                                                                                                                                                     |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Mar              | <b>Final Examination</b>                                                                                                                                                                                                                                     |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Pre-Boards       | <b>Pre-Board in December (Full Syllabus)</b>                                                                                                                                                                                                                 |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |
| Final Exam       | <b>(Full Syllabus)</b>                                                                                                                                                                                                                                       |                                                                                            |                                                                                                                     |                                               |                       |                                                                                                                                                                                                    |

**Class - XI****BIOLOGY PRACTICAL**

| <b>Experiment</b>                  | <b>Name of the Experiment</b>                                                                                                                                                                       | <b>Weightage</b> |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Physiology<br>(one major)          | To study osmosis through potato osmometer. Study of floral parts, Separation of plant pigments by paper chromatography.<br>Test of presence of sugar, starch & fats in proteins plants and animals. | 5                |
| Physiology<br>(one minor)          | Test of presence of urea, sugar, albumin, bile salts in urine, Rate of respiration in upper & lower leaves, in flower buds/germinating seeds.                                                       | 4                |
| Slide formation                    | Preparation and study of T.S Dicot root and stem alongwith T.S Monocot root and stem. Study of Plasmolysis in epidermal peels or Study of distribution of stomata in upper and lower epidermis.     | 5                |
| Spotting                           | 4 specimens and 3 slides                                                                                                                                                                            | 7                |
| Practical<br>Record & Viva<br>Voce | Class record and viva based on that                                                                                                                                                                 | 4                |
| Project Record<br>and Viva Voce    | Project & Viva based on that                                                                                                                                                                        | 5                |
|                                    | <b>Total</b>                                                                                                                                                                                        | <b>30</b>        |

**Class - XI****ECONOMICS (030)**

|                              |                                                                                                   |            |
|------------------------------|---------------------------------------------------------------------------------------------------|------------|
| <b>Theory :<br/>80 Marks</b> | <b>Project : 20 Marks</b>                                                                         |            |
| <b>Units</b>                 | <b>Marks</b>                                                                                      |            |
| <b>Part A</b>                | <b>Statistic for Economics</b>                                                                    |            |
|                              | <b>Introduction</b>                                                                               |            |
|                              | <b>Collection, Organisation and Presentation of Data</b>                                          | <b>15</b>  |
|                              | <b>Statistical Tools and Interpretation</b>                                                       | <b>25</b>  |
| <b>Part B</b>                | <b>Introductory Microeconomics</b>                                                                |            |
|                              | <b>Introduction</b>                                                                               | <b>04</b>  |
|                              | <b>Consumer's Equilibrium and Demand</b>                                                          | <b>14</b>  |
|                              | <b>Producer Behaviour and Supply</b>                                                              | <b>14</b>  |
|                              | <b>Forms of Market and Price Determination under Perfect competition with simple applications</b> | <b>08</b>  |
| <b>Part C</b>                | <b>Project Work</b>                                                                               | <b>20</b>  |
| <b>Total Marks</b>           |                                                                                                   | <b>100</b> |

**Class - XI****ECONOMICS (030)**

| Months | Chapter                                                                                                                                                                           | Topic Related with Chapter (Content)                                                                                                                                                                                                                                                  | Art Integrated Activities                                               | Assignment or Project Work MCQ's                              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|
| April  | Ch.1 Stats concept of Economics and Signification of Statistics in Economics<br>Ch.1 Micro Economics and Economy<br><b>Ch.2 Micro</b><br>Central Problems of an Economy           | What is Economics?<br>Meaning, Scope, functions an Importance of Statistics in Economics<br>Meaning of Micro & Macro<br>Positive and normative Economics<br>What is an Economy?<br>Central Problems of an Economy. what, how & for whom to produce. concept of PPC & Opportunity Cost | Chart Showing Economic Activities and Stages of Statistical Study/tools | Assignment from Ch.2 MCQ's<br>Ch.1 Stats<br>Ch.1 Micro(VSQ's) |
| May    | Ch.9 Stats Measures of Central Tendency Arithmetic Mean<br><br>Ch.3 Micro Consumer's Equilibrium Utility Analysis<br><br>Ch.10 Stats Measures of Central Tendency Median and Mode | Concept of Central Tendency Purpose, function of averages Types of Averages and different methods of Mean, Median and Mode.<br>Consumer's Equilibrium<br>Meaning of utility, Marginal of Consumer's Equilibrium using Marginal Utility Analysis.                                      | Group Discussion of formulas from Ch.9 and 10                           | Assignment Ch.9 and Ch. 10 Practical                          |
| June   | Ch.4 Micro Consumer's Equilibrium- Indifference Curve Analysis                                                                                                                    | Indifference curve analysis of Consumer's Equilibrium<br>Budget Set and Budget line<br>Preference of the consumer and condition of consumer's Equilibrium                                                                                                                             | Present these topics with colourful mind map in your notebook           | Project File<br>Revise May Unit<br>Test Question Paper        |
| July   | Ch.5 Micro Theory of Demand<br>Ch.2 Stats Collection of Data<br>Ch.11 Stats Correlatoin<br>Ch.6 Micro Price Elasticity of Demand                                                  | Demand, market demand, demand curve & schedule<br>Slope, movement, shift and price elasticity of demand methods<br>Collection of data- sources of data-primary & Secondary methods and sources of secondary data, CSO & NSSO                                                          | Self Assessment activity of Relation between Income and Demand          | Assignment Practical Work from Ch.11                          |

| Months | Chapter                                                                                                                                                                                                                                    | Topic Related with Chapter (Content)                                                                                                                                                                                                                                                                                                              | Art Integrated Activities                             | Assignment or Project Work MCQ's                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|
| August | Ch.3 Stats<br>Census & Sample Methods of Collection of Data<br>Ch.4 Stats<br>Organisation of Data<br>Ch.5 Stats<br>Presentation of Data<br>Ch.6 Stats<br>Diagrammatic Presentation of Data                                                 | How basic data is collected<br>Census & Sample Methods<br>Concept of sampling<br>Meaning & types of variables<br>Frequency distribution<br>Tabular presentation and diagrammatic presentation<br>Bar diagrams, ogive and Arithmetic Line Graphs                                                                                                   | Scrap file work<br>Diagrammatic Presentation of Data  | Assignment from Ch.3 to Ch.6 (Stats)<br>Scrap file work Questions |
| Sept.  | Revision of Previous Year Question Papers and Assignments<br><b>Mid Term Examination</b>                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                   |                                                       |                                                                   |
| Oct.   | Ch.7 Stats<br>Frequency Diagrams<br>Ch.8 Stats<br>Arithmetic Line Graphs<br>Ch.7 Micro<br>Production Function and Return to a Factor<br>Ch.8 Micro<br>Concept of Cost<br>Ch.9 Micro<br>Concept of Revenue                                  | Presentation of data in the form of frequency diagrams and time series graphs<br>Meaning of production function-short Run and Long Run. Total Product, Average Product & Marginal product and Returns to a factor<br>Short run cost, total cost, total fixed costs, AVC & MC meaning and their relationship of Revenue-TR,AR,MR                   | Scrap file work<br>Diagrammatic Presentation of data  | Assignment from Ch.7 to Ch.9<br>Practical Work                    |
| Nov.   | Ch.10 Micro<br>Producer's Equilibrium<br>Ch.11 Micro<br>Theory of Supply<br>Ch.12 Micro<br>Forms of Market<br>Perfect Competition<br>Ch.13 Micro<br>Market Equilibrium under Perfect Competition and Effects of shift in Demand and Supply | Concept of supply, market supply, determinants of supply, supply schedule, curve & slope Movement and shift in supply<br>measurement of price elasticity of supply, percentage change method<br>Perfect competition-Features determination of market equilibrium and effects of shift in demand and supply. Simple Application of Demand & Supply | Group discussion based on concept of Revenue and cost | Assignment from ch,10 to Ch.13 (Micro) HOTS                       |

**Class - XI****ECONOMICS (030)**

| Months | Chapter                        | Topic Related with Chapter (Content)                                                                                                                                                      | Art Integrated Activities               | Assignment or Project Work MCQ's                                                       |
|--------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------|
| Nov.   | Ch.12 Stats Index Numbers      | Meaning of Index numbers, types wholesale price index, consumer price index and index of industrial Production, Uses of Index numbers Inflation & Index numbers. Simple Aggregate Methods | Chart showing formulas of index Numbers | Assignment based on Practical Work                                                     |
| Dec.   | Revision and Unit Test         |                                                                                                                                                                                           |                                         |                                                                                        |
| Jan.   | Revision                       |                                                                                                                                                                                           |                                         | Assignment covering CBQ, Case Based Ability Zone Practical Questions                   |
| Feb.   | Revision and Final Examination |                                                                                                                                                                                           |                                         | NCERT based Questions Previous Year Question Papers, Assignment of Important Questions |
| Mar.   | Final Examination              |                                                                                                                                                                                           |                                         |                                                                                        |

| Months | Chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Activities                     |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| April  | <p><b>Ch-1. Constitution: Why and How</b></p> <p>a) Why do we need a Constitution?<br/>           Constitution allows coordination and assurance<br/>           Specification of decision making powers<br/>           Limitations on the powers of government<br/>           Aspiration and goals of a Society<br/>           Fundamental identity of a people</p> <p>b) The authority of a Constitution<br/>           Mode of promulgation<br/>           The substantive provisions of a constitution<br/>           Balanced institutional design</p> <p>c) How was the Indian Constitution made?<br/>           Composition of the Constituent Assembly<br/>           Procedures<br/>           Inheritance of the nationalist movement<br/>           Institutional arrangements</p> <p>d) Provision adapted from Constitutions of different countries</p> <p><b>CH-2. Right in the Indian Constitution</b></p> <p>a) The importance of rights Bill of Rights</p> <p>b) Fundamental rights in the Indian Constitution<br/>           Right to Equality<br/>           Right to against Exploitation<br/>           Right to Freedom of Religion<br/>           Cultural and Educational Rights<br/>           Right to Constitutional Remedies</p> <p>c) Directive principles of state policy<br/>           What do the directive principles contain?</p> <p>d) Relationship between Fundamental rights and Directive principles</p> | Group Discussion:<br>Constitution, Rights |
|        | <p><b>CH-3. Election and Representation</b></p> <p>a) Election and democracy</p> <p>b) Election system in India<br/>           First Past the Post System<br/>           Proportional Representation</p> <p>c) Why did India adopt the FPTP system?</p> <p>d) Reservation of constituencies</p> <p>e) Free and fair elections<br/>           Universal franchise and right to contest<br/>           Independent Election Commission</p> <p>f) Electoral Reforms</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |

| Months | Chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Activities                                                                  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| May    | <b>CH-4. Executive</b><br>a) What is an executive?<br>b) What are the different types of executives?<br>c) Parliamentary executive in India<br>Power and Position of President<br>Discretionary powers of the President<br>d) Prime Minister and Council of ministers<br>e) Permanent Executive: Bureaucracy<br><b>CH-5. Legislature</b><br>a) Why do we need a parliament?<br>b) Why do we need two houses of Parliament?<br>Rajya Sabha, Lok Sabha<br>c) What does the parliament do?<br>Powers of Rajya Sabha<br>Special Powers of Rajya Sabha<br>d) How does the parliament make laws?<br>e) How does the parliament control the executive?<br>f) What do the committees of parliament do?<br>g) How does the parliament regulate itself? | 1. Interpretation of cartoons.<br>2. Newspaper clippings<br>3. quiz<br>4. Model United |
| June   | <b>CH-6. Judiciary</b><br>a) Why do we need an independent judiciary<br>Independent of Judiciary<br>Appointment of Judges<br>Removal of Judges<br>b) Structure of the Judiciary<br>c) Jurisdiction of supreme Court<br>Original Jurisdiction<br>Writ Jurisdiction<br>Appellate Jurisdiction<br>Advisory Jurisdiction<br>d) Judicial Activism<br>e) Judiciary and Rights<br>f) Judiciary and Parliament                                                                                                                                                                                                                                                                                                                                        | Presentation:<br>Judiciary, Parliament                                                 |

| Months | Chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Activities                        |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| July   | <b>CH-7. Federalism</b><br>a) What is Federalism?<br>b) Federalism in the Indian Constitution<br>Division of Powers<br>c) Federalism with a strong central government<br>d) Conflicts in India's federal system<br>Centre-State Relations<br>Demands for Autonomy<br>Role of Government and President's Rule<br>Demands for New States<br>Interstate Conflicts<br>e) Special Provisions Jammu and Kashmir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Interpretation of Cartoons Question strategy |
|        | <b>CH-8. Local Governments</b><br>a) Why local governments?<br>b) Growth of Local Government in India<br>Local Governments in Independent India<br>c) 73rd and 74th amendments<br>d) 73rd Amendment<br>Three Tier Structure<br>Elections<br>Reservations<br>Transfer of subjects<br>State Election Commission<br>State Finance Commission<br>e) 74th Amendment<br>f) Implementation of 73rd and 74th Amendments<br><br><b>CH-9. Constitution as a Living Document</b><br>a) Are Constitutions static?<br>b) How to amend the constitution?<br>c) Why have there been so many amendments?<br>d) Contents of amendments made so far<br>Differing Interpretations<br>Amendments through Political Consensus<br>Controversial Amendments<br>e) Basic structure and evolution of the constitution<br>f) Constitution as a Living Document<br>Contribution of the judiciary<br>Maturity of the Political Leadership |                                              |

| Months            | Chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Activities                                                                                |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| August            | <b>CH-10. The Philosophy of the Constitution?</b><br>a) what is meant by philosophy of the constitution?<br>Constitution as Means of Democratic Transformation<br>b) Why do we need to go back to the Constituent Assembly?                                                                                                                                                                                                                                                                                   | Maps/Cartoons<br>Question strategy<br>Quiz                                                           |
|                   | c) What is the political philosophy of our constitution?<br>Individual freedom<br>Social Justice<br>Respect for diversity and minority rights<br>secularism<br>Universal franchise<br>federalism<br>National identity<br>d) Procedural Achievement<br>e) Criticisms<br>f) Limitations<br><b>(B-Book) CH-1. Political Theory: An Introduction</b><br>a) What is politics?<br>b) What do we study in political theory?<br>c) Putting Political theory into practice<br>d) Why should we study political theory? |                                                                                                      |
| Sept.             | <b>CH-2. Freedom</b><br>a) The Ideal of freedom<br>b) The sources of Constraints-Why do we need constraints?<br>c) The Harm Principle<br>d) Negative and Positive Liberty<br><br><b>Revision for Exam</b>                                                                                                                                                                                                                                                                                                     | 1. Cartoon Interpretation<br>Map Activity<br>2. Quiz                                                 |
| Syllabus for PT-1 | <b>1. CH-1 to 4 of A Book</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1. Cartoon Interpretation of Cartoon/ Caricatures<br>2. Timeline<br>3. Quiz<br>4. Reflective Enquiry |

| Months | Chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Integrated Activities                                                                 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Term 1 | CH-1. Constitution: Why and How ?<br>CH-2. Right in the Indian Constitution<br>CH-3. Election and Representation<br>CH-4. Executive<br>CH-5. Legislature<br>CH-6. Judiciary<br>CH-7. Federalism                                                                                                                                                                                                                                                                                                                                                     |                                                                                       |
| Oct.   | <b>CH-6. Citizenship</b><br>a) Introduction<br>b) Full and equal membership<br>c) Equal Rights<br>d) Citizen and Nation<br>e) Universal Citizenship<br>f) Global Citizenship                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |
| Nov.   | <b>CH-7. Nationalism</b><br>a) Introducing Nationalism<br>b) Nations and Nationalism <ul style="list-style-type: none"> <li>• Shared Beliefs</li> <li>• History</li> <li>• Shared National Identity</li> </ul> c) National self-determination<br>d) Nationalism and Pluralism<br><b>CH-8. Secularism</b><br>a) What is Secularism? <ul style="list-style-type: none"> <li>• Inter-religious Domination</li> <li>• Intra-religious Domination</li> </ul> b) Secular State<br>c) The western model of secularism<br>d) The Indian model of secularism |                                                                                       |
|        | e) Criticisms of Indian secularism <ul style="list-style-type: none"> <li>• Western Import</li> <li>• Minoritism</li> <li>• Interventionist</li> <li>• Vote Bank Politics</li> </ul>                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| Dec.   | <b>Revision of Exam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1. Interpretation of cartoons<br>2. Newspaper clippings<br>3. Quiz<br>4. Model United |
| Jan.   | <b>Revision for Final Exam</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |

**Class - XI****POLITICAL SCIENCE (028)**

| Months            | Chapter              | Integrated Activities                                                                         |
|-------------------|----------------------|-----------------------------------------------------------------------------------------------|
| Feb.              | <b>Final Exam</b>    | Interpretation of Cartoons Question strategy                                                  |
| Mar.              | <b>Final Exam</b>    | Maps/Cartoons Question strategy Quiz                                                          |
| Syllabus for PT-2 | <b>Full Syllabus</b> | 1. Cartoon Interpretation Map Activity<br>2. Quiz                                             |
| Final Exam        |                      | 1. Interpretation of Cartoons/ Caricatures<br>2. Timeline<br>3. Quiz<br>4. Reflective Enquiry |

| Question Paper Design (030)    |                  | Theory 80<br>Time : 3 Hours |                    |           |
|--------------------------------|------------------|-----------------------------|--------------------|-----------|
| Type of Questions              | No. of Questions |                             | Marks              | Total     |
| Very Short Question            | 20               | x                           | 1 =                | 20        |
| Very Short type question       | 3                | x                           | 2 =                | 06        |
| Short Answer                   | 4                | x                           | 4 =                | 16        |
| Long Answer (based in Passage) | 3                | x                           | 5 =                | 15        |
| Map's Question or Picture      | 1                | x                           | 5 =                | 5         |
| Long Answer                    | 3                | x                           | 6 =                | 18        |
|                                |                  |                             | <b>Total marks</b> | <b>80</b> |

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                            | Practical                                                                                                                                                                                                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April  | <b>Unit I - An Introduction of Art</b><br>i) What is Art and the origin of Art? Explain the types of Art.<br>ii) Six Limbs of Art<br>iii) Fundamentals of Art<br>iv) Line and type of line<br>v) Form, Space and Shape definition<br>vi) Definition of Colours, types and effects of colour<br>vii) Principles of Art<br>viii) Difference between shade and colours                                                          | <b>Practice for Advertisement and Posters Basics</b><br>(A3 Size Sheets Sketch Book)<br>i) A to Z alphabets<br>ii) Calligraphy sheets step by step in different fonts and mediums (English, Hindi, Punjabi)<br>iii) Quotations<br>iv) Logo<br>v) Book Cover<br>vi) Book Mark                         |
| May    | <b>Unit II - Introduction</b><br>i) Period and Location<br>ii) Harappan and Mohenjo-Daro Appreciate the sculpture and Terra Cotta<br>i) Dancing Girl (Mohenjo-Daro)<br>ii) Male Torso (Harappa)<br>iii) Mother Goddess (Mohenjo-Daro)<br>Study and application of Seals<br>i) Bull Seal<br>ii) Painted<br>Earthen - Wares Jar (Mohenjo-Daro)                                                                                 | <b>Nature Study</b><br>(A3 Size Sketch book)<br>i) Landscape with Pencil shading<br>ii) Features with pencil shading<br>iii) Practice for Flowers, Birds, Animal drawing and sketching.<br>Objects, textures, Shading in different mediums of colours<br><br>Sheets checking for A3 size Sketch Book |
| June   | <b>Unit II - Buddhist Jain and Hindu Art</b><br>(3rd century to 8th century A.d.<br>2. Appreciate of the following sculptures:<br>i. Lion Capital<br>ii. Chauri Bearer from Didar Ganj (Yakshi) (Mauryan Period)<br>iii. Seated Buddha from Katra Mound, Mathura<br>iv. Jain Tirthankara<br>3. Introduction of Ajanta Location period, no of caves, Chatia and Vihara, paintings and sculptrues, subject and techniques etc. | <b>Illustrations : size 11cm/30cm (Ivory Sheet) Story Illustrations</b><br>i. Family and friends<br>ii. Picnic Scene<br>iii. Games and Sports<br>iv. Profession / Professional composition<br>v. Story scenes<br>vi. Music                                                                           |

| Months | Lecture based Units to be covered                                                                                                                                                                                                                                                                                                                                                                                                                       | Practical                                                                                                                                                                                                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| July   |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1. Nature<br>2. Human anatomy<br>3. Portraits<br>4. Designs (Doodle, Mandala, Border design)<br>5. Textures<br>6. Cartooning<br>7. Digital animation print collage design                                            |
| August | <b>Unit III - Temple Sculptures, Bronzes and artistic aspects of indo Islamic Architecture</b><br>1. Artistic aspects of Indian Temple and sculptures: 6th century to 13th century<br>2. Appreciate Temple Sculptures:<br>i) Descent of Ganga<br>ii) Trimurti<br>iii) Lakshmi Narayana<br>iv) Cymbal Player<br>v) Mother and Child<br>3. Define Differences between High Relief and Low relief sculptures, Explain Round sculpture and Relief sculpture | <b>Advertisement</b><br><b>Size : Half Chart (Ivory Sheet)</b><br>1. Cosmetic<br>ii. Food<br>iii. Fashion                                                                                                            |
| Sept.  | <b>Unit IV</b><br>3. Bronzes :<br>i) Natraj<br>4. Architecture:<br>i) Qutub Minar, Delhi<br>ii) Gol Gumbaj of Bijapur                                                                                                                                                                                                                                                                                                                                   | <b>Poster</b><br><b>Size : Half Chart (Ivory Sheet)</b><br>i. Save Environment<br>ii. Say No to Drug<br>iii. Blood Donation<br>iv. Cultural Activities<br>v. Social Issues<br>vi. Save Electricity<br>vii. Education |
| PT-1   | Revision and test<br>Unit I<br>Unit II<br>Unit III<br>Unit IV                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                      |
| Term-1 | Revision and test<br>Unit I, Unit II, Unit III, Unit IV                                                                                                                                                                                                                                                                                                                                                                                                 | File Submission<br>Portfolio File A2 Size<br>Sheets Checking for Portfolio File for Mid Term, Total Sheets                                                                                                           |

## **BUSINESS STUDIES (Session 2026-2027)**

**Theory:-80 Marks**

**Project:- 20 Marks**

| <b>Blue Print of Class XI - Commerce<br/>B. Studies (054)</b> |                                                     |               |              |
|---------------------------------------------------------------|-----------------------------------------------------|---------------|--------------|
| <b>Units</b>                                                  |                                                     | <b>Period</b> | <b>Marks</b> |
| Part A                                                        | Foundation of Business                              |               |              |
| 1                                                             | Nature and Purpose of Business                      | 18            | 16           |
| 2                                                             | Forms of Business Organisation                      | 24            |              |
| 3                                                             | Public, Private and Global Enterprises              | 18            | 14           |
| 4                                                             | Business Services                                   | 18            |              |
| 5                                                             | Emerging Modes of Business                          | 10            | 10           |
| 6                                                             | Social Responsibility of Business & Business Ethics | 12            |              |
|                                                               | Total                                               | 100           | 40           |
| Part B                                                        | Finance and Trade                                   |               |              |
| 7                                                             | Sources of Business Finance                         | 30            | 20           |
| 8                                                             | Small Business                                      | 16            |              |
| 9                                                             | Internal Trade                                      | 30            | 20           |
| 10                                                            | International Trade                                 | 14            |              |
|                                                               | Total                                               | 90            | 40           |
|                                                               |                                                     |               |              |
|                                                               | Project Work One                                    | 30            | 20           |

**Suggested Question Paper Design Business Studies (Code No. 054)**  
**Class - XI (2025-26)** **March 2026 Examination**  
**Duration: 3 hrs** **Marks: 80**

| S. No. | Typology of Questions                                                                                                                                                                                                                                                                                                                                                                                                                     | Marks | Percentage |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| 1      | Remembring and Understanding: Exhibit memory of previously learned by material by recalling facts, terms, basic concepts, and answer. Demonstrate understanding of facts and ideas by organizing comparing, translating, interpreting, giving descriptions and stating main ideas                                                                                                                                                         | 44    | 55%        |
| 2      | Applying: Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way                                                                                                                                                                                                                                                                                                                 | 19    | 23.75%     |
| 3      | Analysing, Evaluating and Creating: Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations. Present and defend opinions by making judgements about information, validity of ideas, or quality of work based on a set of criteria. Compile information together in different way by combining elements in new pattern or proposing alternative solutions. | 17    | 21.25%     |
|        | Total                                                                                                                                                                                                                                                                                                                                                                                                                                     | 80    | 100%       |

| Months | Chapter                                                                                                                              | Topics related with chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Art Integrated Activities                                                    | Assignment/ MCQ                                       |
|--------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------|
| April  | <ul style="list-style-type: none"> <li>Ch:-1 Nature and Purpose of Business</li> <li>Ch:-2 Forms of Business Organisation</li> </ul> | Unit-1 History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporation, Major Trade Centre, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy.<br>Business-meaning and characteristics<br>Business, profession and employment concept.<br>Objectives of business, Classification of business activities<br>Industry and Commerce, Industry-types: primary, secondary, tertiary-Meaning and subgroups Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) meaning<br>Business risk-Concept.<br>Unit 2: Forms of Business organizations<br>*sole | Prepare a chart showing the comparison between different economic activities | Assignment (MCQ) from Ch: 1 and Ch: 2<br>Case studies |

| Months | Chapter                                       | Topics related with chapter                                                                                                                                                                                                                                                                              | Art Integrated Activities                                                                                       | Assignment/MCQ                                                                     |
|--------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|        |                                               | Proprietorship-Concept, merits and limitations<br>Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed.<br>Types of partners<br>* Hindu Undivided Family Business: Concept<br>* Cooperative Societies-Concept, merits and limitations. |                                                                                                                 |                                                                                    |
| May    | Ch:-2 Forms of Business Organisation (contd.) | Company-Concept, merits and limitations;<br>Types: Private, Public and One Person Company-Concept.<br>* Formation of company-stages, important documents to be used in formation of a company<br>* Choice of form of business organization                                                               | Group Discussion<br>Consequence of non registration of a partnership firm.<br>Preparation of a Partnership deed | Assignment from Chapter 2 and MCQ, remembering question, pictorial based questions |
| June   | Ch:-3 Public, Private and                     | Unit-3 Global Enterprises<br>Public sector and private sector enterprises-Concept<br>* Forms of public sector enterprises:<br>Departmental Undertaking, Statutory Corporations and Government Company                                                                                                    |                                                                                                                 |                                                                                    |

| Months | Chapter                                                                                           | Topics related with chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Art Integrated Activities                                                                          | Assignment/MCQ                                                         |
|--------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|        |                                                                                                   | * Global Enterprises-Feature<br>Joint venture Public private<br>Partnership-concept                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To Study the profile of any Indian multinational and class presentation                            | Assignment:- Competency based questions from ch:-3                     |
| July   | Ch:-4 Business Services<br>Ch:-5 Emerging Modes of Business                                       | Unit 4 : Business services-meaning and types<br>Banking: Types of bank accounts savings current, recurring fixed deposit, and multiple option deposit account.<br>Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit.<br>E-Banking meaning, types of digital payments<br>* Insurance Principles. Types-life, health, fire and marine insurance concept.<br>Postal Service-Mail, Registered Post, Parcel, Speed Post, Courier-meaning<br>Unit 5: Emerging Modes of Business<br>E-business:- Concept, scope and benefits | Visit to a bank and understand its functioning collect various forms used by banks                 | Assignment:- from ch:-4 and 5<br>* MCQ<br>* Case based questions       |
| August | Ch:- 6 Social Responsibility of Business and Business Ethics<br>Ch:- 7 Source of Business Finance | Unit 6 : Concept of social responsibility<br>* Case of social responsibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Preparation of Ground rules of Ethics which human beings should practice in to be ethical in life. | Assignment:- from Ch:-6 and Ch:-8<br>MCQ<br>Competency based questions |

| Months               | Chapter                              | Topics related with chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Art Integrated Activities                     | Assignment/ MCQ             |
|----------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------|
|                      |                                      | * Responsibility towards owners, investors consumers, employees, government and community<br>* Role of business in environment protection<br>* Business Ethics- Concept and Elements.<br>Unit 7: Sources of Business Finance<br>* Concept of business finance<br>* Owners' funds-equity shares, preferences share, retained earnings<br>* Borrowed funds: debentures and bonds loan from financial institution and commercial banks, public deposits, trade credit, Inter Corporate Deposits (ICD) |                                               |                             |
| Sept.                | <b>Revision</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                             |
| PT 1                 | <b>Chapter 1 and Chapter 2</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                             |
| Half Yearly syllabus | <b>Chapter 1 to chapter 7</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                             |
| Oct.                 | Ch:-8 Small Business and Enterprises | Unit 8: Small Business and Enterprises                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Presentation of any business idea for startup | Assignment from ch:9 and 10 |

| Months | Chapter               | Topics related with chapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Art Integrated Activities                                                                                     | Assignment/ MCQ                                                                 |
|--------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|        | Ch:- 9 Internal Trade | <p>* Entrepreneurship Development (ED): Concept, Characteristics and Need.</p> <p>* Process of Entrepreneurship Development:</p> <p>* Start-up India Scheme, ways to fund start-up. Intellectual Property Right and Entrepreneurship</p> <p>* Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)</p> <p>* Role of small business in India with special schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas.</p> <p>Unit 9: Internal Trade</p> <p>Internal trade- meaning and types</p> <p>services rendered by a wholesaler and a retailer</p> <p>Types of retail-trade- itinerant and small scale fixed shops</p> <p>retailers</p> | <p>in the class.</p> <p>Prepare a project on any one of the following- departmental store or chain store.</p> | <ul style="list-style-type: none"> <li>• MCQ</li> <li>• Case studies</li> </ul> |

| Months | Chapter                       | Topics related with chapter                                                                                                                                                                                                                                                                                              | Art Integrated Activities                                | Assignment/ MCQ                                                                                                     |  |
|--------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|
|        |                               | Large scale retailers- Department stores, chain stores concept<br>GST (Goods and Services Tax): Concept and key-features.                                                                                                                                                                                                |                                                          |                                                                                                                     |  |
| Nov.   | Ch:-10<br>International Trade | Unit 10 : International trade: concept and benefits<br>Export trade-Meaning and Procedure<br>Import trade-Meaning and Procedure<br>Documents involved in International Trade; indent, letter of credit, shipping order. shipping bills, mate's receipt (DA/DP)<br>World Trade Organization (WTO) meaning and objectives. | Group discussion - Import procedure and export procedure | Assignment from Ch:- 11 <ul style="list-style-type: none"><li>• MCQ</li><li>• Remembering based questions</li></ul> |  |
| Dec.   | Pre-board                     | Full Syllabus                                                                                                                                                                                                                                                                                                            |                                                          |                                                                                                                     |  |
| Jan.   | Revision                      |                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                                                                     |  |
| Feb.   | Revision and Final exams      |                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                                                                     |  |
| Mar.   | Final exams                   |                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                                                                     |  |

**Class - XI****PHYSICAL EDUCATION (048)**

| Months | Chapters to be covered                                                              | Art Integrated Activity                                                                          | Assignment/Project                                                                                                                                                           | Topic Related to Chapter                                                                                                    |
|--------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| April  | Ch-1 Changing Trends & Career in Physical Education<br>Ch-2 Olympic Value Education | Poster making on career opportunities in sports<br>Creating Olympic symbols using waste material | Report on 'Evolution of Physical Education in India'<br>Presentation on Olympic history & values                                                                             | Career options in physical education<br>Olympic movements & ideals                                                          |
| May    | Ch-3 Yoga<br>Ch-4 Physical Education & Sports for CWSN                              | Demonstration of different Yoga poses<br>Drawing on 'Inclusion in Sports'                        | <ul style="list-style-type: none"> <li>Report on benefits of yoga in daily life</li> <li>Case study on a para-athlete</li> <li>Survey on students' fitness levels</li> </ul> | Importance of yoga & stress management<br>Adaptive sports for children with special needs<br>Importance of physical fitness |
| June   | Ch-6 Test, Measurement & Evaluation<br>Ch-7 Fundamentals of Anatomy & Physiology    | Conducting BMI & flexibility tests in class<br>3D model of skeletal & muscular system            | <ul style="list-style-type: none"> <li>Report on the importance of fitness testing</li> <li>Diagram -based assignment on bones &amp; muscles</li> </ul>                      | Measurement tools in sports<br>Functions of body systems in sports                                                          |
| July   | Ch-8 Fundamentals of Kinesiology & Biomechanics                                     | Video demonstration of different body movements                                                  | Report on biomechanics in running/jumping                                                                                                                                    | Biomechanics principles in sports                                                                                           |
| August | Ch-9 Psychology & Sports<br>Ch-10 Training & Doping in Sports                       | Skit on 'Importance of motivation in sports'<br>Chart on effects of doping                       | Case study on a famous athlete's mental resilience<br>Debate on 'Fair play vs Doping'                                                                                        | Role of sports psychology<br>Training principles & types of doping                                                          |
| Sept.  | Practical Sessions + Term 1 Exams                                                   | Fitness Tests, Proficiency in Games & Yoga                                                       | Conducting school fitness test                                                                                                                                               | Practical Applications                                                                                                      |
| Oct.   | Completion & Revision                                                               | Quick Revision & Doubt Solving                                                                   | Quiz & Mock Tests                                                                                                                                                            | Mock Tests & Viva Preparation                                                                                               |
| Nov.   | Unit-wise Revision (Units 1-5)                                                      |                                                                                                  |                                                                                                                                                                              |                                                                                                                             |
| Dec.   | Unit-wise Revision (Units 6-10)                                                     |                                                                                                  |                                                                                                                                                                              |                                                                                                                             |
| Jan.   | Practical assessments & internal projects                                           |                                                                                                  |                                                                                                                                                                              |                                                                                                                             |
| Feb.   | Full Syllabus mock tests                                                            |                                                                                                  |                                                                                                                                                                              |                                                                                                                             |
| March  | Final revision & last-minute preparation                                            |                                                                                                  |                                                                                                                                                                              |                                                                                                                             |

## Class - XI      ACCOUNTANCY (Academic Plan) (code 055)

| Month | Chapters                                                                                                        | Topics related with chapters                                                                                                                                                                                                                                                                                                                                                                                              | Assignments and Projects                                             |
|-------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| April | Ch-2 Basic accounting terms<br>Ch-5 Accounting Equation                                                         | Basic accounting terms - Entity, Business transaction, Capital, Drawings, Liabilities, Assets, Expenses, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods etc. Accounting equations Approach                                                                                                                                                                                                                   | Assignment from Ch-2 MCQ's & Case based<br>Ch-5 Practical Assignment |
| May   | Ch-1 Introduction to accounting<br>Ch-6 Rules of Debit and Credit<br>Ch-8 Journal                               | Accounting concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business. Rules of Debit and credit. Recording of transactions into Journal                                                                               | Assignment from Ch-1 & 6 MCQ's Ch-8 Practical Assignments            |
| June  | Ch-3 Theory base of accounting<br>Ch-4 Bases of accounting<br>Ch-7 Source documents and preparation of vouchers | Fundamental accounting assumptions: GAAP: Concept <ul style="list-style-type: none"> <li>Basic Accounting Concept: Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism</li> <li>Materiality and Objectivity</li> <li>Basis of accounting</li> <li>Types of vouchers and its preparation</li> </ul> | Assignment from Ch-3 & 4 MCQ's & Short answer type questions.        |
| July  | Ch-9 Ledger<br>Ch-10 Cash Book<br>Ch-12 GST                                                                     | Cash Book: Simple, cash book with bank column and petty cashbook, Ledger: Format, Posting from Journal, Goods and Services Tax (GST): Characteristics and Advantages subsidiary books, Balancing of accounts                                                                                                                                                                                                              | Assignment from Ch-9 & 10 MCQ's & Practical assignment               |

## Class - XI      ACCOUNTANCY (Academic Plan) (code 055)

| Month           | Chapters                                                                             | Topics related with chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Assignments and Projects                                         |
|-----------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| August          | Ch-11 Other Books<br>Ch-13 Bank reconciliation statement<br>Ch-14 Trial balance      | Trial Balance: objectives, meaning and preparation.<br>Need and preparation, Bank Reconciliation Statement.<br>Special Purpose books: Purchases book, Sales book, Purchase return book, Sales return book, Journal Proper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Assignment from Ch-11, 13 & 14 MCQ's. Ch-13 Practical assignment |
| Sept.           | Revision                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |
| PT-1            | Ch-2, 5, 6 and 8                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |
| Term 1<br>Sept. | Ch 1 to 14                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |
| Oct.            | Ch-15 Depreciation<br>Ch-16 Provisions and reserves<br>Ch-17 Rectification of errors | Depreciation: Meaning, Features, Need, Causes, factors<br>Other similar terms: Depletion and Amortisation<br>Methods of Depreciation:<br>i. Straight Line Method (SLM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |
| Oct.            |                                                                                      | ii. Written Down Value Method (WDV). Difference between SLM and WDV;<br>Advantages of SLM and WDV<br>Method of recoding depreciation<br>i. Charging to asset account<br>ii. Creating provision for depreciation/accumulated depreciation account<br>Treatment of disposal of asset<br>Provisions, Reserves, Difference between Provisions and Reserves<br>Types of Reserves:<br>i. Revenue reserve<br>ii. Capital reserve<br>iii. General reserve<br>iv. Specific reserve<br>v. Secret Reserve<br>Different between capital and revenue reserve. Errors: classification - errors of omission, commission, principles and compensating; their effect on Trial Balance.<br>Detection and rectification of errors;<br>(i) Errors which do not affect trial balance | Assignment from Ch-16 MCQ's<br>Ch-15 & 17 Practical Assignment   |

## Class - XI ACCOUNTANCY (Academic Plan) (code 055)

| Month | Chapters                                                                                                                    | Topics related with chapters                                                                                                                                                                                                                                                                                                                   | Assignments and Projects                                          |
|-------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Oct.  |                                                                                                                             | (ii) Errors which affect trial balance<br>Preparation of suspense account.                                                                                                                                                                                                                                                                     |                                                                   |
| Nov.  | Ch-18 Financial statements of sole proprietorship<br>Ch-19 Adjustments in financial statements<br>Ch-20 Single entry system | Meaning, objectives and importance; Revenue and Capital Receipts; Revenue and Capital Expenditure; Deferred Revenue expenditure. Opening journal entry. Trading and Profit and Loss Account: Gross Profit, Operating profit and Net profit. Preparation. Balance Sheet: need, grouping and marshalling of assets and liabilities. Preparation. | Assignment from Ch-19 MCQ's & Ch-18, 19 & 20 Practical Assignment |
| Dec.  | Pre-Annual Exam (100% Syllabus)                                                                                             |                                                                                                                                                                                                                                                                                                                                                | *Sample Papers                                                    |
| Jan.  | Revision                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                | *Sample Papers                                                    |
| Feb.  | Revision & Final Examination                                                                                                |                                                                                                                                                                                                                                                                                                                                                | *Previous year question papers                                    |
| March | Final Examination                                                                                                           |                                                                                                                                                                                                                                                                                                                                                |                                                                   |

## Class - XI ACCOUNTANCY (055)

| Course Structure |                                                                                                                             |                                |
|------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                  | Units                                                                                                                       |                                |
| Part A           | Financial Accounting - I<br>Unit 1 - Theoretical frame work (Ch 1 to Ch. 4)<br>Unit 2 - Accounting Process (Ch. 5 to Ch.17) | Marks<br>12<br>44<br><b>56</b> |
| Part B           | Financial Accounting - II<br>Unit 3 - Financial statement of sole proprietorship (Ch.18 to Ch. 20)                          | 24<br><b>80</b>                |
| Part C           | Project Work                                                                                                                | 20<br><b>100</b>               |

**Class - XI****PSYCHOLOGY  
Theory Paper**

| <b>Unit</b> | <b>Topics</b>                               | <b>Marks</b> |
|-------------|---------------------------------------------|--------------|
| I           | Understanding Psychology                    | 11           |
| II          | Methods of Enquiry in Psychology            | 13           |
| III         | Human Development                           | 11           |
| IV          | Sensory, Attentional and Perceptual Process | 8            |
| V           | Learning                                    | 9            |
| VI          | Human Memory                                | 8            |
| VII         | Thinking                                    | 5            |
| VIII        | Motivation and Emotion                      | 5            |
|             | <b>Total</b>                                | <b>70</b>    |

|                                                                                   |                 |
|-----------------------------------------------------------------------------------|-----------------|
| Practical File                                                                    | 05 Marks        |
| Project File                                                                      | 05 Marks        |
| Viva Voce                                                                         | 05 Marks        |
| One experiment (05 marks for conduction of experiment and 10 marks for reporting) | 15 Marks        |
| <b>Total</b>                                                                      | <b>30 Marks</b> |

**Prescribed Book :** Psychology, Class XI, Published by NCERT

**Question Paper Design Class - XII**

**Theory Paper : 70 marks**

**Time : 3 Hours**

| <b>S.No.</b> | <b>Competencies</b>                             | <b>Total Marks</b> | <b>% Weightage</b> |
|--------------|-------------------------------------------------|--------------------|--------------------|
| 1.           | Remembering and Understanding                   | 35                 | 50%                |
| 2.           | Applying                                        | 25                 | 35%                |
| 3.           | Formulating, Analysing, Evaluating and Creating | 10                 | 15%                |
|              | <b>Total</b>                                    | <b>70</b>          | <b>100%</b>        |

**Class - XI****PSYCHOLOGY (037)**

| Months | Chapter                                  | Topics Related with Chapter                                                                                                                                                                                                                                                                                                                                                                  | Art Integrated Activity | Practical | Assignment         |
|--------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------|--------------------|
| April  | Unit-I What is Psychology?               | Introduction, What is Psychology?<br>- Psychology as a Discipline<br>- Psychology as a Natural Science<br>- Psychology as a Social Science<br>Understanding Mind and Behaviour, Popular Notions about the Discipline of Psychology, Evolution of Psychology, Development of Psychology in India, Branches of Psychology, Psychology and other Disciplines and Psychology in Everyday Life    | Famous Psychologist     |           | MCQ & Case Studies |
| May    | Unit-II Methods of Enquiry in Psychology | Introduction, Goals of Psychological Enquiry, Steps in Conducting Scientific Research, Alternative Paradigms of Research, Nature of Psychological Data, Some Important Methods in Psychology, Observational Method, Experimental Method, Correlational Research, Survey Research, Psychological Testing & Case Study, Analysis of Data, Limitations of Psychological Enquiry, Ethical Issues |                         |           | MCQ & Case Studies |
| June   | Unit III Human Development               | Introduction, Meaning of Development, Life-Span Perspective on Development, Factors Influencing Development, Context of Development, Overview of Developmental Stages, Prenatal Stage, Infancy, Childhood, Challenges of Adolescence, Adulthood and Old Age                                                                                                                                  |                         |           | MCQ & Case Studies |

## Class - XI

**PSYCHOLOGY (037)**[illegible]

**Class - XI****PSYCHOLOGY (037)**

| Months   | Chapter                                                 | Topics Related with Chapter                                                                                                                                                                                                                                                                          | Art Integrated Activity  | Practical                                          | Assignment         |
|----------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------|--------------------|
| October  |                                                         | Nature of Creative Thinking, Process of Creative Thinking, Thought and Language, Development of Language and Language Use                                                                                                                                                                            |                          |                                                    |                    |
| November | Unit VIII<br>Motivation and Emotion                     | Introduction, Nature of Motivation, Types of Motives<br>Biological Motives Psychosocial Motives, Maslow's Hierarchy of Needs, Nature of Emotions, Expression of Emotions, Culture and Emotional Expression, Culture and Emotional Labelling, Managing Negative Emotions, Enhancing Positive Emotions | Chart on Maslow's Theory | Practical 2 :<br>Achievement Motivation Scale - DM | MCQ & Case Studies |
| December | Revision & Compilation of Practical file & Project File |                                                                                                                                                                                                                                                                                                      |                          |                                                    |                    |
| January  | Revision                                                |                                                                                                                                                                                                                                                                                                      |                          |                                                    |                    |
| February | Revision and Final Exams                                |                                                                                                                                                                                                                                                                                                      |                          |                                                    |                    |
| March    | Final Exams.                                            |                                                                                                                                                                                                                                                                                                      |                          |                                                    |                    |

**Class - XI****MUSIC VOCAL (034)**

| <b>Months</b> | <b>Chapter with Art Integrated Activity</b>                                                                                      | <b>Practical</b>                                                                                         |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| April         | Introduction of Music, Naad, Sharuti, Swar, Saptak, Raag, Description of Teen Taal. Description and Notation of Raag Bihhag. MCQ | Swar Practice of Alankars, Raag Bhihag, Teen Taal on hand beets. Notation of Drut Khayal in Raag Bihhag. |
| May           | Margi Desh Sangeet<br>Life Sketch of Tansen Ji M.C.Q                                                                             | Raag Bhihag with Taans, Sathai, Antra                                                                    |
| June          | Natya Shastra, Ek Taal Description. M.C.Q                                                                                        | Ektaal on hand beets with ekgun and dogun                                                                |
| July          | Life Sketch of Vishnu Naryan Ji, Description of Raag Bhairvi, M.C.Q                                                              | Swar Practice of Raag Bhairvi                                                                            |
| August        | Notation of Raag Bhairvi, Dharupad, M.C.Q                                                                                        | Drut Khayal of Raag Bhairvi in Teen Taal                                                                 |
| Sept.         | Exams.                                                                                                                           | Exams.                                                                                                   |
| Oct.          | Description of Char Taal, Thaata Jati, Laya, Taal<br>Life Sketch of Vishnu Digamber Ji M.C.Q                                     | Chaar Taal on hand beets with ekgun and dogun                                                            |
| Nov.          | Introduction of Khayal Description of Raag Bhimpalasi, Notation of Raag Bhimpalasi M.C.Q                                         | Drut Khayal in Raag Bhimpalasi with Taanas                                                               |
| Dec.          | Tarana, Knowledge of Structure of Tanpura, Recognizing the Raag from Phrases of Swaras. M.C.Q                                    | Practice of all Raags and Taals of syllabus.<br>Swar Practice of Raag Jaunpuri                           |

| <b>Blue Print</b>                                                                                           |                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. Definition                                                                                               | Sangeet, Dhawani, nada, Shruti, Swar, Saptak, Thaata, Jati, Raag, Swarmalika, Tarana, Nibadha and anibadhagana. 3 out of 4 6 marks |
| 2. Description                                                                                              | Raag Bihaag, (2 out of 3) 6 marks Raag Bhairvi, Bhimpalasi                                                                         |
| 3. Life Sketch                                                                                              | Tansen, V.N Bhatkhande (2 marks) V.D Pluskar                                                                                       |
| 4. Writing notation of Any Raag - 6 marks                                                                   |                                                                                                                                    |
| 5. Writing notation of Taal - Teen Tal, Ektaal, Kehrwaa, Dadra, (2 out of 3) - 6 marks<br>Chartaal, Sultaal |                                                                                                                                    |
| 6. Brief history of Khayal, Dhrupad, Gharana - 2 marks                                                      |                                                                                                                                    |
| 7. Natya Shastra - 2 marks                                                                                  |                                                                                                                                    |

| Sr. No. | Units                      | No. of Periods | Marks     |
|---------|----------------------------|----------------|-----------|
| 1.      | Sets and Functions         | 60             | 23        |
| 2.      | Algebra                    | 50             | 25        |
| 3.      | Coordinate Geometry        | 50             | 12        |
| 4.      | Calculus                   | 40             | 08        |
| 5.      | Statistics and Probability | 40             | 12        |
|         | <b>Total</b>               | <b>240</b>     | <b>80</b> |
|         | <b>Internal Assessment</b> |                | <b>20</b> |

| Sr. No. | Typology of Questions                                                                                                                                                                                                                                                                                                                                                                                                                                               | Total Marks | %Weightage |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|
| 1.      | <b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.<br><b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideals.                                                                                                                                                                  | 44          | 55         |
| 2.      | <b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way                                                                                                                                                                                                                                                                                                                                    | 20          | 25         |
| 3.      | <b>Analysing:</b> Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations<br><b>Evaluating:</b> Present and defend opinions by making judgments about information, validity of ideals, or quality of work based on a set of criteria.<br><b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions | 16          | 20         |
|         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>80</b>   | <b>100</b> |

| Months | Chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lab Manual/Art Integrated Activities                                                                                                                                                                                                                                                                                             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April  | <p><b>Ch1- Sets</b></p> <ul style="list-style-type: none"> <li>Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals.</li> <li>Universal set, Venn diagrams. Union and Intersection of sets. Difference of sets.</li> <li>Complement of a set. Properties of Complement.</li> </ul> <p><b>Ch2- Relation &amp; Functions</b></p> <ul style="list-style-type: none"> <li>Ordered pairs. Cartesian product, Number of elements in the Cartesian product of two finite sets, product of the set of reals with itself (up to <math>\mathbb{R} \times \mathbb{R} \times \mathbb{R}</math>).</li> <li>Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.</li> <li>Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions.</li> <li>Constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.</li> </ul> <p><b>Ch3- Trigonometric Functions</b></p> <ul style="list-style-type: none"> <li>Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another.</li> </ul> | <p><b>Activity 1:</b></p> <ul style="list-style-type: none"> <li>Let's understand the concept of sets, subsets etc. using real objects.</li> </ul> <p><b>Activity 2:</b></p> <ul style="list-style-type: none"> <li>Let's understand the concept of operators (like union, intersection etc) using group of students.</li> </ul> |
| May    | <p><b>Ch3- Trigonometric Functions</b></p> <ul style="list-style-type: none"> <li>Definition of trigonometric functions with the help of unit circle.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p><b>Activity 3:</b></p> <ul style="list-style-type: none"> <li>Let's understand the concept of Cartesian product of given non-empty sets using electrical circuits.</li> </ul>                                                                                                                                                 |

| Months | Chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lab Manual/Art Integrated Activities                                                                                                                                                                                                                                                             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs.</li> <li>Expressing <math>\sin(x \pm y)</math> and <math>\cos(x \pm Y)</math> in terms of <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> &amp; <math>\cos y</math> and their simple applications.</li> </ul> <b>Ch4- Complex Numbers and Quadratic Equations</b> <ul style="list-style-type: none"> <li>Need for complex numbers, especially <math>\sqrt{-1}</math>, to be motivated by inability to solve some of the quadratic equations.</li> </ul> <p style="text-align: center;"><b>Revision of PT 1</b></p> | <b>Activity 4:</b> <ul style="list-style-type: none"> <li>Let's draw the graphs of trigonometric functions using paper folding and cutting.</li> </ul>                                                                                                                                           |
| June   | <b>Ch4- Complex Numbers and Quadratic Equations (Continued)</b> <ul style="list-style-type: none"> <li>Algebraic properties of complex numbers. Argand plane</li> </ul> <b>Ch5- Linear Inequalities</b> <ul style="list-style-type: none"> <li>Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line.</li> </ul> <p style="text-align: center;"><b>Summer Vacations</b></p>                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                  |
| July   | <b>Ch6- Permutations and Combinations</b> <ul style="list-style-type: none"> <li>Fundamental principle of counting. Factorial <math>n</math>. <math>(n!)</math></li> <li>Permutations and combinations, derivation of Formulae for <math>nPr</math> and <math>nCr</math> and their connections, simple applications.</li> </ul> <b>Ch7- Binomial Theorem</b> <ul style="list-style-type: none"> <li>Historical perspective, statement and proof of the binomial theorem for positive integral indices.</li> <li>pascal's triangle, simple applications.</li> </ul>                                                                                                      | <b>Activity 5:</b> <ul style="list-style-type: none"> <li>Let's do an activity to find the values of trigonometric function in different Quadrants.</li> </ul> <b>Activity 6:</b> <ul style="list-style-type: none"> <li>Use of graph paper to understand the concept of argand plane</li> </ul> |
|        | <b>Ch8- Sequence and Series</b> <ul style="list-style-type: none"> <li>Sequence and Series.</li> <li>Arithmetic Mean (A.M.)</li> <li>Geometric Progression (G.P.), general term of a G.P., sum of <math>n</math> terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M and G.M</li> </ul>                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                  |

| Months           | Chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lab Manual/Art Integrated Activities                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| August           | <b>Ch9- Straight Lines</b> <ul style="list-style-type: none"> <li>2-dimensional geometry.</li> <li>Slope of a line and angle between two lines.</li> </ul> Various forms of equations of a line:<br>Parallel to axis, point-slope form, slope-intercept form, two point form, intercept form, <ul style="list-style-type: none"> <li>Distance of a point from a line.</li> </ul> <b>Ch11- Introduction to Three-dimensional Geometry</b> <ul style="list-style-type: none"> <li>Coordinate axes and coordinate planes in three dimensions.</li> <li>Coordinates of a point. Distance between two points.</li> </ul>                                                                     | <b>Activity 7:</b> <ul style="list-style-type: none"> <li>Use of cards to understand the concept of permutations and combinations.</li> </ul> <b>Activity 8:</b> <ul style="list-style-type: none"> <li>Let's make an project/model to represent the octants.</li> </ul> |
| Sept.            | <b>Revisoin of Syllabus for Half Yearly Examination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                          |
| PT1              | <ul style="list-style-type: none"> <li>Sets</li> <li>Relation &amp; Functions</li> <li>Trigonometric Functions</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                          |
| Half Yearly Exam | <ul style="list-style-type: none"> <li>Sets</li> <li>Relation &amp; Functions</li> <li>Trigonometric Functions</li> <li>Complex Numbers and Quadratic Equatoins</li> <li>Linear Inequalities</li> <li>Permutations and Combinations</li> <li>Binomial Theorem</li> <li>Sequence and Series</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                          |
| Oct.             | <b>Ch10- Conic Sectoin</b> <ul style="list-style-type: none"> <li>Circles, ellips, parabola, hyperbola,</li> <li>Degenerated case of a conic section.</li> <li>Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.</li> </ul> <b>Ch12- Limits and Derivatives</b> <ul style="list-style-type: none"> <li>Derivative introduced as rate of change</li> <li>Limits of polynomials and rational functions trigonometric, exponential and log.</li> <li>Definition, tangent of the curve, derivative of sum, difference, product and quotient of functions</li> <li>Derivatives of polynomial and trigonomial functions.</li> </ul> | <b>Activity 9:</b> <ul style="list-style-type: none"> <li>To construct the parabola</li> </ul> <b>Activity 10:</b> <ul style="list-style-type: none"> <li>Plotting of ellipse using a rectangle.</li> </ul>                                                              |

| Months | Chapters                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Lab Manual/Art Integrated Activities |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Nov.   | <b>Ch13- Statistics</b> <ul style="list-style-type: none"> <li>Measure of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.</li> </ul> <b>Ch14- Probability</b> <ul style="list-style-type: none"> <li>Events; occurrence of event, 'not', 'and' and 'or' events, exhaustive events, mutually exclude events, Axiomatic (set theoretic) Probability, connections with other theories of earlier classes.</li> </ul> |                                      |
|        | <ul style="list-style-type: none"> <li>Probability of an event, probability of 'not', 'and' and 'or' events.</li> </ul>                                                                                                                                                                                                                                                                                                                                         |                                      |
| Dec.   | <b>Revision of Syllabus for Pre-Board Exam</b><br>(100% Done Syllabus)                                                                                                                                                                                                                                                                                                                                                                                          |                                      |
| Jan.   | <b>Revision of Syllabus</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |
| Feb.   | <b>Final Examination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |
| March  | <b>Final Examination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |

| Months     | Chapters with Art Integrated Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Practical                                                                                                                                                                                                                                                                                                              |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| April      | <b>Unit 1 : Introduction to Computer System</b> <ul style="list-style-type: none"> <li>• Introduction to computer and computing: components of a computer system and their interconnections</li> <li>• Input/output devices</li> <li>• Computer Memory, data deletion, its recovery and related security concerns.</li> <li>• Software: purpose and types - system and application software, generic and specific purpose software.</li> <li>• Make a Chart on types of softwares.</li> </ul> | Basic computer operations. <ul style="list-style-type: none"> <li>• Creating Folder/Files</li> <li>• Moving Files/Folder to different location using cut &amp; copy method</li> <li>• Renaming files/folders</li> <li>• Deleting Files/Folders</li> <li>• Restoring deleted files/ folders from recycle bin</li> </ul> |
| May        | <b>Unit 2 : Introduction to Python</b> <ul style="list-style-type: none"> <li>• Basics of Python programming, execution modes, structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, statements, expression evaluation, comments, input and output statements, data type conversion, debugging.</li> <li>• Mention various datatypes of Python on A4 sheet</li> </ul>                                     | <ul style="list-style-type: none"> <li>• Structure of Python Program</li> <li>• Adding comments in program</li> <li>• Use of input/output statements</li> <li>• Basic Python programs</li> <li>• Use of assignment operator</li> <li>• Use of various operators in python</li> </ul>                                   |
| PT-1 (May) | Unit-1, Unit-2 (Topics covered till May)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                        |
| June       | <b>Unit 2 : Introduction to Python</b> <ul style="list-style-type: none"> <li>• Control Statements: if-else, if-elif-else, while loop, for loop</li> <li>• Chart depicting the significance of Looping statements.</li> </ul>                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• Use of if, if-else, if-elif-else</li> <li>• for loop</li> <li>• while loop</li> </ul>                                                                                                                                                                                         |
| July       | <b>Unit 2 : Introduction to Python</b> <ul style="list-style-type: none"> <li>• List : list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions - len(), count(), index(), list ( ), remove(), pop(), reverse(), sort(), min(), max(), sum(), append( ), extend( )</li> <li>• Chart depicting the significance of Looping statements.</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>• Methods of creating lists in python</li> <li>• list functions to manipulate list data</li> </ul>                                                                                                                                                                              |
| August     | <b>Unit 2 : Introduction to Python</b> <ul style="list-style-type: none"> <li>• Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions - dict(), len(), keys(), values(), items(), update(), del, clear()</li> </ul>                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Various methods of creating dictionary.</li> <li>• Built in methods to manipulate dictionary</li> </ul>                                                                                                                                                                       |

| Months | Chapters with Art Integrated Activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Practical                                                                                                                                                                                                                                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sept.  | Revision & Term - 1 Examination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                      |
| Oct.   | Unit 3 : Database concepts and the Structured Query Language<br>Database Concepts: Introduction and its need<br>Database Management System<br>Relational data model : Concept of domain, tuple, relation, candidate key, primary key, alternate key<br>Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types, Data Definition: CREATE DATABASE, CREATE TABLE, DROP, ALTER | <ul style="list-style-type: none"> <li>• Creating database, tables in mysql</li> <li>• DDL commands in Sql</li> <li>• DML commands in Sql</li> <li>• Constraints</li> <li>• Sorting data using Order by Clause</li> <li>• Distinct Clause</li> </ul> |
| Nov.   | Data Query: SELECT, FROM WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL, Data Manipulation: INSERT, DELETE, UPDATE<br>Unit 4 : Introduction to the Emerging Trends<br>Artificial Intelligence, Machine Learning, NLP, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IOT), Sensors, Smart cities, Cloud Computing and Cloud Services, Grid Computing, Block chain technology.                                                    | <ul style="list-style-type: none"> <li>• Operators in Sql</li> <li>• Applying conditions on Sql tables.</li> </ul>                                                                                                                                   |
| Dec.   | Revision for Pre-Board Exams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                      |
| Jan.   | Revision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                      |
| Feb.   | Final Examination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                      |