

**MT. COLUMBUS SCHOOL**  
**Dakshinpuri, New Delhi – 62**  
**Periodic Test- I Syllabus (2018 -2019)**

**Class - IX**  
**SUBJECT-ENGLISH**

**NAME OF THE BOOK:** Beehive  
 Moments

| CHAPTERS  | CONTENT   | ACTIVITY   |
|---|---|--|
| <b><u>Beehive</u></b><br><b>(Prose)</b><br>1. The Fun They Had<br>2. The Sound of Music<br><b>(Poetry)</b><br>1. The Road Not Taken<br><br><b><u>Moments</u></b><br>1. The Lost Child<br>2. The Adventures of Toto<br><br><b><u>Writing &amp; Grammar</u></b><br>1. Letter to the editor<br>2. Gap filling<br>3. Editing<br>4. Omission | <ul style="list-style-type: none"> <li>• Reading and appreciating the text<br/>Understanding the plot, the style of writing and the genre</li> <li>• Word meanings-expanding the vocabulary with new words, usage of new words</li> <li>• Understanding the characterization and other elements of a story</li> <li>• Reference to the Context</li> <li>• Questions And Answers</li> <br/> <li>• Usage of formal letters</li> <li>• Essential components of these writing tasks</li> <li>• Their applications in current day</li> </ul> | 1. Role Play enacting the change of education system.<br><br>2. Creative Writing on the different choices made by the students in life so far. |

**BLUEPRINT**

**TIME: 1:15 Hrs.**

**MAX. MARKS: 30**

|                               | 1 Mark         | 2 Marks      | 5 Marks      | Total     | Percentage(%)<br>Weightage |
|-------------------------------|----------------|--------------|--------------|-----------|----------------------------|
| <b>SECTION : A (05 marks)</b> |                |              |              |           | 16.7                       |
| Unseen Passage                | 5              |              |              | 5         |                            |
| <b>SECTION : B (15 marks)</b> |                | -            | -            |           | 50                         |
| Letter to the editor          | -              | -            | 1            | 5         |                            |
| Editing                       | 3              | -            | -            | 3         |                            |
| Omission                      | 2              | -            | -            | 2         |                            |
| Gap Filling                   | 5              | -            | -            | 5         |                            |
| <b>SECTION : C (10 marks)</b> |                |              |              |           | 33.3                       |
| Question Answers              | -              | 3            | -            | 6         |                            |
| Reference to the Context      | 2              | -            | -            | 2         |                            |
| Value Based Question          | -              | 1            | -            | 2         |                            |
| <b>Total</b>                  | <b>17X1=17</b> | <b>4X2=8</b> | <b>1X5=5</b> | <b>30</b> | <b>100</b>                 |

विषय—हिन्दी

| पाठ का नाम   | क्रियाकलाप           | दत्तकार्य   |
|--|----------------------|---|
| <b>स्पर्श</b><br>पाठ—2 दुख का अधिकार<br>पाठ—3 एवरेस्ट : मेरी शिखर यात्रा<br>पाठ—9 पद<br>पाठ—10 दोहे<br><b>संचयन</b><br>पाठ—1 गिल्लू<br><b>व्याकरण और लेखन</b><br>वर्ण—विच्छेद, अनुस्वार, अनुनासिक<br>अनुच्छेद और पत्र लेखन | आशु—भाषण<br>कौशल—पठन | साहित्य भाग से अभ्यासोत्तर प्रश्नोत्तर<br>और व्याकरण भाग से अभ्यास<br>प्रश्नोत्तर |

प्रश्न पत्र का स्वरूप

समय—1:15 घण्टा

पूर्णांक—30

| क्रम संख्या | पाठ्यक्रमानुसार इकाइयाँ  | इकाई पर आवंटित अंक    | अंकवार प्रश्नों की संख्या |               |              |              | कुल प्रश्न |
|-------------|--|-----------------------|---------------------------|---------------|--------------|--------------|------------|
|             |  |                       | 1 अंक                     | 2 अंक         | 4 अंक        | 5 अंक        |            |
| 1           | अपठित अवबोध  | 5                     | 5                         |               |              |              | 1          |
| 2           | <b>व्याकरण</b><br>वर्ण—विच्छेद<br>अनुस्वार<br>अनुनासिक   | 4<br>2<br>2           |                           | 4             |              |              | 4          |
| 3           | <b>पाठ्यपुस्तक (स्पर्श)</b><br>पाठ—2 दुख का अधिकार<br>पाठ—3 एवरेस्ट: मेरी शिखर यात्रा<br>पाठ—9 पद (रैदास)<br>पाठ—10 दोहे<br><b>(संचयन)</b><br>पाठ—1 गिल्लू | 2<br>2<br>2<br>2<br>4 |                           | 4             |              | 1            | 5          |
| 4           | <b>लेखन</b><br>अनुच्छेद / पत्र   | 5                     |                           |               |              | 1            | 1          |
|             | <b>योग</b>   | <b>30</b>             | <b>5X1=5</b>              | <b>8X2=16</b> | <b>1X4=4</b> | <b>1X5=5</b> | <b>11</b>  |

**SUBJECT-MATHEMATICS**

**NAME OF THE BOOK:** Mathematics

| <b>CHAPTER</b>                | <b>CONTENT</b>  | <b>LAB ACTIVITY</b>                                    |
|-------------------------------|---|--|
| Chapter 1 :<br>Number Systems | <ol style="list-style-type: none"> <li>Review of representation of natural numbers, integers, rational numbers on the number line. Representation of terminating / non-terminating recurring decimals, on the number line through successive magnification. Rational numbers as recurring/terminating decimals.</li> <li>Examples of non-recurring / non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as <math>\sqrt{2}</math>, <math>\sqrt{3}</math> and their representation on the number line. Explaining that every real number is represented by a unique point on the number line and conversely, every point on the number line represents a unique real number.</li> <li>Existence of <math>\sqrt{x}</math> for a given positive real number x (visual proof to be emphasized).</li> <li>Definition of nth root of a real number.</li> <li>Rationalization (with precise meaning) of real numbers of the type <math>1/(a+b\sqrt{x})</math> and <math>1/(\sqrt{x}+\sqrt{y})</math> (and their combinations) where x and y are natural number and a and b are integers.</li> <li>Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws).</li> </ol> | To construct a square root spiral.                     |
| Chapter 2 :<br>Polynomials    | <ol style="list-style-type: none"> <li>Definition of a polynomial in one variable, with examples and counter examples. Coefficients of a polynomial, terms of a polynomial and zero polynomial. Degree of a polynomial. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. Factors and multiples. Zeros of a polynomial. Motivate and State the Remainder Theorem with examples. Statement and proof of the Factor Theorem. Factorization of <math>ax^2 + bx + c</math>, <math>a \neq 0</math> where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Verification of identities:                     <ol style="list-style-type: none"> <li><math>(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx</math></li> <li><math>(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)</math></li> <li><math>x^3 \pm y^3 = (x \pm y)(x^2 \pm xy + y^2)</math></li> <li><math>x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)</math> and their use in factorization of polynomials.</li> </ol> </li> </ol>  | To verify a algebraic Identity $(a+b)^2 = a^2+2ab+b^2$ |

**BLUE PRINT**

**TIME: 1:15 Hrs.**

**MAX. MARKS: 30**

| <b>Ch. Name/No of Questions</b> | <b>Very Short<br/>1 Marks</b> | <b>Short<br/>2 Marks</b> | <b>Long<br/>3 Marks</b> | <b>V.Long<br/>4 Marks</b> | <b>Total</b> | <b>%<br/>Weightage</b> |
|---------------------------------|-------------------------------|--------------------------|-------------------------|---------------------------|--------------|------------------------|
| Ch-1 Number System              | 3                             | 2                        | 1                       | 1                         | 14           | 46.3                   |
| Ch-2 Polynomial                 | 2                             | 4                        | 2                       | -                         | 16           | 53.7                   |
| <b>Total</b>                    | <b>1X5=5</b>                  | <b>2X6=12</b>            | <b>3X3=9</b>            | <b>4X1=4</b>              | <b>30</b>    | <b>100</b>             |

|  | CONTENT  | ACTIVITY   | EXPERIMENT  |
|--|--|--|---|
| PHYSICS<br>CH-8 Motion                       | Distance and displacement, Uniform and Non uniform motion, Acceleration, Distance –time and Velocity-time graphs, Derivation of equations of motion, Uniform circular motion | To find the difference in magnitude of distance and displacement | —   |
| CHEMISTRY<br>CH-1 Matter in our surroundings | Matter, Physical nature of matter, Characteristics of matter, States of matter, Change of states, Evaporation, Factors affecting evaporation                                 | To show that the temperature remain same during change of state. | Determination of melting point of ice and boiling point of water. |
| BIOLOGY<br>CH-5 The Fundamental unit of life | Cell as the basic unit of life, Prokaryotic and Eukaryotic cell, Cell membrane, Cell wall, Cell organelle, Nucleus, Chromosomes (Basic structure and number)                 | To show osmosis in a peeled potato                               | Preparation of temporary mount of onion peel                      |

## BLUEPRINT

TIME: 1:15 Hrs.

MAX. MARKS: 30

| S.No         | CHAPTERS                          | V.V Short Answer (1 Mark) | Very Short Answer (2 Marks) | Short Answer (3 Marks) | Long Answer (5 Marks) | Total Marks | Percentage (%) Weightage |
|--------------|-----------------------------------|---------------------------|-----------------------------|------------------------|-----------------------|-------------|--------------------------|
| 1.           | CH-8 Motion                       | –                         | 2                           | 2                      | –                     | 10          | 33.33                    |
| 2.           | CH-1 Matter in Our Surroundings   | 2                         | 1                           | 2                      | –                     | 10          | 33.33                    |
| 3.           | CH-5 The Fundamental unit of Life | 1                         | 2                           | –                      | 1                     | 10          | 33.33                    |
| <b>Total</b> |                                   | <b>1X3=3</b>              | <b>2X5=10</b>               | <b>3X4=12</b>          | <b>5X1=5</b>          | <b>30</b>   | <b>100</b>               |

**SUBJECT- SOCIAL SCIENCE**

**NAME OF THE BOOK:** India and the Contemporary World-I / Contemporary India-I / Democratic Politics-I / Economics

|  | <b>CONTENTS</b>  | <b>ACTIVITIES</b>  |
|--|--|--|
| <b>HISTORY</b>                         |  |  |
| Ch-1 The French Revolution             | The Ancient Regime and its crises.<br>The social forces that led to the revolution.<br>The different revolutionary groups and ideas of the time.<br>The legacy   | Map Work   |
| <b>GEOGRAPHY</b>                       |  |  |
| Ch-1 India-Size and Location           | Size and location  | Map work   |
| Ch-2 Physical Features of India        | Relief, structure, major physiographic unit  | Map Work   |
| <b>ECONOMICS</b>                       |  |  |
| Ch-1 The Story of Village Palampur     | Economic transactions of Palampur and its interaction with the rest of the world through which the concept of production can be introduced.  |  |
| <b>POL. SCIENCE</b>                    |  |  |
| Ch-2 What is Democracy? Why Democracy? | What are the different ways of defining democracy?<br>Why has democracy become the most prevalent form of government in our times?<br>What are the alternatives to democracy?<br>Is democracy superior to its available alternatives?<br>Must every democracy have the same institutions and values? | Collect the editorials, articles from news paper that have anything to do with democracy.<br>Classify these into the following categories: *Constitutional aspects of Democracy<br>*Citizen's Rights<br>*Electoral parties |

**BLUEPRINT**

**TIME: 1:15 Hrs.**

**MAX. MARKS: 30**

| S. No. | Name of the Chapters                   | Very Short Answer (1 Mark) | Short Answer (3 Marks) | Long Answer (5 Marks) | Total Marks | Percentage (%) Weightage |
|--------|--|----------------------------|------------------------|-----------------------|-------------|--------------------------|
| 1      | Ch-1 The French Revolution             | 2                          | 3                      | -                     | 08          | 26.7                     |
| 2      | Ch-1 India-Size and Location           | 1                          | 1                      | -                     | 04          | 13.3                     |
| 3      | Ch-2 Physical Features of India        | -                          | 1                      | -                     | 03          | 10                       |
| 4      | Ch-1 The Story of Village Palampur     | -                          | -                      | 1                     | 05          | 16.6                     |
| 5      | Ch-2 What is Democracy? Why Democracy? | 2                          | 1                      | -                     | 05          | 16.6                     |
| 6      | Map Work(History)                      | 2                          | -                      | -                     | 02          | 06.8                     |
| 7      | Map work(Geography)                    | -                          | 1                      | -                     | 03          | 10                       |
|        | <b>Total</b>                           | <b>7 X 1 = 07</b>          | <b>6 X 3 = 18</b>      | <b>1 X 5 = 05</b>     | <b>30</b>   | <b>100</b>               |

**\*Weightage given to all parts:**

**History- 10 Marks / Geography- 10 Marks / Political Science- 5 Marks / Economics- 5 Marks**

**SUBJECT- INFORMATION TECHNOLOGY**

NAME OF BOOK: - A Text book of Information technology

| CHAPTER                       | CONTENT   | LAB ACTIVITY/ PRACTICAL   |
|-------------------------------|---|---|
| Ch-2 Fundamentals of Computer | 1. Using a Computer<br>2. Computer Operating System<br>3. Performing Basic File operations<br>4. The Internet<br>5. The World Wide Web<br>6. Digital technology & Media Devices<br>7. Computer Security & Privacy | 1. Performing Basic File Operations<br>2. Basic of Internet & World Wide Web<br>3. Digital Technology & Media Devices<br>4. Computer Security & Privacy |

**BLUE PRINT**

TIME: 1 Hr.

MAX. MARKS: 20

| Name of the Chapter           | Very Short<br>Short<br>1 Marks | Short<br>2 Marks | Long<br>3 Marks | V .Long<br>4 Marks | Total     | Percentage (%)<br>Weightage |
|-------------------------------|--------------------------------|------------------|-----------------|--------------------|-----------|-----------------------------|
| Ch-2 Fundamentals of Computer | 3                              | 3                | 2               | 1                  | 20        | 100                         |
| <b>Total</b>                  | <b>1X3=3</b>                   | <b>2X3=6</b>     | <b>3X2=9</b>    | <b>5X1=5</b>       | <b>20</b> |                             |

**SUBJECT – ART EDUCATION**

| CONTENT  |
|--|
| <ul style="list-style-type: none"> <li>• <b>VISUAL ARTS</b> <ol style="list-style-type: none"> <li>1. BASICS AND TERMS</li> </ol> </li> <li>• <b>MODELLING</b> <ol style="list-style-type: none"> <li>1. PENCIL SHADING</li> </ol> </li> <li>• <b>LEGENDS WHO INSPIRE</b></li> </ul> |