

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

**Class - X**  
**SUBJECT-ENGLISH**

NAME OF THE BOOK: Literature Reader (CBSE)  
Main Course Book (CBSE)  
Workbook (CBSE)

CHAPTERS	CONTENT	ACTIVITY
<p><b><u>LITERATURE READER</u></b>  <b>(FICTION)</b>  F2 – Mrs. Packletide’s Tiger  F3 – The Letter  <b>(POETRY)</b>  P2 – Not marble, nor the gilded monuments  P3 – Ozymandias  <b>(DRAMA)</b>  D1- The Dear Departed  <b>(NOVEL)</b>  June 12, 1942 to March 14, 1944</p> <p><b><u>WRITING &amp; GRAMMAR</u></b>  1. Article Writing  2. Story Writing  3. Formal Letter (placing order/inquiry)  4. Rearranging of Sentences  5. Gap Filling  6. Editing/Omission</p> <p><b><u>MAINCOURSE BOOK</u></b>  <b>(for practice)</b>  Unit 2 - Education  Unit 3 – Science  Unit 4 – Environment</p> <p><b><u>WORKBOOK</u></b> (for practice)  Unit 1,2,3,4,5</p>	<p>*Reading and appreciating the text  *Understanding the plot, the style of writing and the genre  *Word meanings-expanding the vocabulary with new words, usage of new words *Understanding the characterization and other elements of a story  *Reference to the Context  *Questions And Answers</p> <p>*Usage of formal letters  *Essential components of these writing tasks  *Their applications in current day</p>	<p>1. <u>Assessment of Speaking Skills</u>  Speech</p> <p>2. Notice Writing (page 80-MCB)  (on A4 size sheet)</p> <p>3. Write a science fiction story  (on A size sheet)</p> <p>4. Report Writing (page 130-MCB)  (on A4 size sheet)</p>

**BLUEPRINT****TIME: 2 Hrs.****MAX. MARKS: 50**

	<b>1 Mark</b>	<b>2 Marks</b>	<b>5 Marks</b>	<b>Total</b>	<b>Percentage (%) Weightage</b>
<b>SECTION : A (10 marks)</b>					20
Unseen Passage	10	-	-	10	
<b>SECTION : B (20 marks)</b>					40
Article Writing/Formal letter	-	-	1	5	
Story Writing	-	-	1	5	
Editing/Omission	5	-	-	5	
Gap Filling	5	-	-	5	
<b>SECTION : C (20 marks)</b>					40
Question Answers	-	5	-	10	
Reference to the Context	-	-	1	5	
Value Based Question	-	-	1	5	
<b>Total</b>	<b>20X1=20</b>	<b>5X2=10</b>	<b>4X5=20</b>	<b>50</b>	<b>100</b>

पाठ का नाम	क्रियाकलाप	दत्तकार्य
<b>क्षितिज</b> पाठ 1 सूरदास पाठ 2 तुलसीदास पाठ 5 सूर्यकांत त्रिपाठी 'निराला' पाठ 6 नागार्जुन पाठ 7 गिरिजा कुमार माथुर पाठ 10 नेताजी का चश्मा पाठ 11 बालगोबिन भगत पाठ 12 लखनवी अंदाज पाठ 13 मानवीय करुणा की दिव्य चमक	लयात्मक पठन लयात्मक पठन कविता लेखन (प्रकृति) मेरा बचपन (कहानी लेखन) लयात्मक पठन विचार प्रस्तुति (देशभक्ति का भाव) सादा जीवन उच्च विचार (अनुच्छेद) यात्रावृत्त लेखन व्यक्तित्व का वर्णन (जिससे आप प्रभावित हों)	साहित्य भाग से अभ्यासोत्तर और व्याकरण भाग से अभ्यास प्रश्नोत्तर
<b>कृतिका—</b> पाठ 1 माता का आँचल  पाठ 2 जॉर्ज पंचम की नाक	माँ (कविता लेखन)  भ्रष्टाचार (निबंध लेखन)	
<b>व्याकरण —</b> रचना के आधार पर वाक्य भेद वाच्य पद—परिचय रस पत्र लेखन विज्ञापन लेखन अपठित बोध		

प्रश्न पत्र का स्वरूप

समय— 2 घण्टे

पूर्णांक—50

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				1 (1X5)	1
2	<b>व्याकरण</b> रचना के आधार पर वाक्य भेद वाच्य पद—परिचय रस	4 4 4 4			4 (1X4)		4
3	पाठ्यपुस्तक <b>क्षितिज</b>  <b>कृतिका</b>	16 4		1 (2X8)	1		1 1
4	पत्र लेखन	5				1	1
5	विज्ञापन लेखन	4			1		1
		50		1	6	3	10

## SUBJECT-MATHEMATICS

NAME OF THE BOOK: Mathematics

CHAPTER	CONTENT	LAB ACTIVITY
Chapter 1 : Real numbers Chapter 2 : Polynomials Chapter 3 : Pair of linear equations in two variables	<ul style="list-style-type: none"> <li>• As per PT-1 syllabus.</li> <li>• Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solutions of a pair of linear equations in two variables algebraically – by substitution, by elimination and by cross multiplication method.</li> </ul>	<ul style="list-style-type: none"> <li>• Activity: To obtain the conditions for number of solutions/inconsistency of a pair of linear equations in two variables by graphical method.</li> <li>• Ch 4 : Worksheet</li> <li>• Activity: To verify the formula for the sum of n terms of an arithmetic progression.</li> </ul>
Chapter 4: Quadratic equations	<ul style="list-style-type: none"> <li>• Standard form of a quadratic equation <math>ax^2 + bx + c = 0</math>, (<math>a \neq 0</math>).</li> <li>• Solutions of quadratic equations (only real roots) by factorization, by completing the square and by using quadratic formula.</li> <li>• Relationship between discriminant and nature of roots.</li> <li>• Situational problems based on quadratic equations related to day to day activities to be incorporated.</li> <li>• Motivation for studying Arithmetic Progression.</li> <li>• Derivation of the nth term and sum of the first n terms of A.P. and their application in solving daily life problems.</li> </ul>	
Chapter 5: Arithmetic progressions	<ul style="list-style-type: none"> <li>• (In two-dimensions) Review: Concepts of co-ordinate geometry, graphs of linear equations.</li> </ul>	
Chapter 7: Coordinate geometry lines	<ul style="list-style-type: none"> <li>• Distance formula.</li> <li>• Section formula (internal division).</li> <li>• Area of a triangle.</li> </ul>	
Chapter 14: Statistics	<ul style="list-style-type: none"> <li>• Mean, median and mode of grouped data (bimodal situation to be avoided).</li> <li>• Cumulative frequency graph.</li> </ul>	
Chapter 15: Probability	<ul style="list-style-type: none"> <li>• Classical definition of probability. Simple problems on single events (not using set notation).</li> </ul>	

**BLUEPRINT****TIME: 2 Hrs.****MAX. MARKS: 50**

<b>Name Of The Chapter</b>	<b>Very Short (1 Mark)</b>	<b>Short (2 Marks)</b>	<b>Long (3 Marks)</b>	<b>Very Long (4 Marks)</b>	<b>Total</b>	<b>Percentage (%) Weightage</b>
Chapter 1 : Real numbers	1		1		4	8%
Chapter 2 : Polynomials		1	1		5	10%
Chapter 3: Pair of linear equations in two variables		1	1	1	9	18%
Chapter 4: Quadratic equations		1	1	1	9	18%
Chapter 5: Arithmetic progressions	1	1	1		6	12%
Chapter 7: Coordinate geometry lines	1	1	1		6	12%
Chapter 14: Statistics			1	1	7	14%
Chapter 15: Probability	1		1		4	8%
<b>Total</b>	<b>1X4=4</b>	<b>2X5=10</b>	<b>3X8=24</b>	<b>4X3=12</b>	<b>50</b>	<b>100</b>

**SUBJECT – SCIENCE**

**NAME OF THE BOOK:** Science

<b>SUBJECT</b>	<b>CHAPTERS</b>	<b>CONTENT</b>	<b>ACTIVITY</b>	<b>EXPERIMENT</b>
PHYSICS	CH-12 Electricity	As per PT-1 syllabus.	-----	-----
	Ch-13 Magnetic effects of electric current.	Magnetic field; field lines; Field due to a current carrying conductor; Circular coil and solenoid; Force on current carrying conductor; Fleming left hand rule; Electric motor; Electromagnetic induction; Fleming’s Right hand rule; Electric generator; Direct and alternating current; Domestic electric circuit.	To observe magnetic field due to current carrying conductor.	-----
	CH-10 Light	Reflection of light; Reflection by spherical mirrors; Centre of curvature; Principal axis and focus; Focal length; Image formation by spherical mirror; Mirror formula; Laws of refraction; Image formation by spherical lens; Lens formula; Magnification of power of lens.	To measure the power of lens. (Concave and Convex lens )	<ol style="list-style-type: none"> <li>1. Determination of the focal length of Concave mirror by obtaining the image of a distant object.</li> <li>2. . Determination of the focal length of Convex lens by obtaining the image of a distant object.</li> <li>3. Finding the image distance for varying object distance in case of convex lens and drawing corresponding ray diagrams to show the nature of image formation.</li> </ol>
CHEMISTRY	CH-2 Acids, Bases and Salts.	Properties of acids and bases; Reaction of acids and bases with : Metals, Metal Carbonates and Metallic Oxide, Metal Hydrogen Carbonate; Importance of pH in everyday life; Preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.	To identify the acidic and basic nature of the solution using Olfactory indicator.	<ol style="list-style-type: none"> <li>1. Finding the pH of the samples by using pH paper.</li> <li>2. To study the properties of acids and bases.</li> </ol>
	CH-3 Metals and Non-Metals.	Physical properties of Metals and Non-metals; Reactivity series; Formation and properties	-----	Observing the action of Zn, Fe, Cu, and Al metals on the salt

BIOLOGY	CH-7 Control and Co-ordination.	of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.  Nervous system; Voluntary, involuntary and reflex action; Tropic movements in plants; Plants hormones; Co-ordination in plants and animal; Animal hormones	To study the action of Gustatoreceptor and olfactoreceptor while eating food.	solutions.  -----
	CH-15 Our Environment	Ecosystem and its components; Food chain and Food web; Ozone layer; Management of produced garbage.	Make a list of all those activities by applying them in daily life you can reduce the use of non-biodegradable substances.	-----
	CH-9 Heredity and Evolution	Heredity; Mendel's contribution- Laws of inheritance of traits; Sex determination; Basic concepts of evolution.	To observe the ears of all the students in the class and take out interference	----

**BLUEPRINT****TIME: 2 Hrs.****MAX. MARKS: 50**

<b>S.No</b>	<b>CHAPTERS</b>	<b>V.V Short Answer (1 Mark)</b>	<b>Very Short Answer (2 Marks)</b>	<b>Short Answer (3 Marks)</b>	<b>Long Answer (5 Marks)</b>	<b>Total Marks</b>	<b>Percentage (%) Weightage</b>
1	Ch-13 Magnetic effects of electric current.	1			1	6	12
2	Ch-10 Light	1	1	1		6	12
3	CH- 12 Electricity		2			4	8
4	CH-2 Acids, Bases and Salts		2	1		7	14
5	CH-3 Metals and Non-Metals.		1	1	1	10	20
6	CH-7 Control and Co-ordination.			1	1	8	16
7	CH-15 Our Environment	1	1			3	6
8	CH-9 Heredity and Evolution	1	1	1		6	12
<b>Total</b>		<b>1X4=4</b>	<b>2X8=16</b>	<b>3X5=15</b>	<b>5X3=15</b>	<b>50</b>	<b>100</b>

**SUBJECT- SOCIAL SCIENCE**

**Name of the Book: India and the Contemporary World-II / Contemporary India-II / Democratic Politics-II  
/ Understanding Economic Development**

	<b>CONTENTS</b>	<b>ACTIVITIES</b>
<b>HISTORY</b>		
Ch-4. The making of a Global World OR Ch-5. The Age of Industrialization OR Ch-6. Work, Life & Leisure (Any one)  Ch-7. Print, Culture and the Modern World  OR Ch-8. Novels, Society and History (Any one)	As per the PT-I Syllabus  The history of print in Europe, The growth of press in 19 <sup>th</sup> century India, Relationship between print culture, public debate and politics OR Emergence of the novel as a genre in the west, The relationship between the novel and changes in modern society, Early novels in 19 <sup>th</sup> century India, A Study of two or three major writers	-
<b>GEOGRAPHY</b>		
Ch-1. Resources and Development  Ch-3. Water Resources  Ch-4. Agriculture	As per the PT-I Syllabus  Sources, distribution, utilisation, multi-purpose projects, water scarcity, need for conservation and management, rainwater harvesting  Types of farming, major crops, cropping pattern, technological and institutional reforms, their impact, contribution of agriculture to national economy-employment and output	-  Map work  Map work-major areas of rice and wheat, Sugarcane, Tea, Coffee, Rubber, Cotton and jute
<b>ECONOMICS</b>		
Ch-1. Development  Ch-2. Sectors of the Indian Economy	As per the PT-I Syllabus  Sectors of economic activities, Historical changes in sectors, Rising importance of tertiary sector, Employment generation, Division of sectors-organised and unorganised, Protective measures for unorganised sectors workers	-  Using numerical examples, charts and photographs provide examples of service sector activities
<b>POLITICAL SCIENCE</b>		
Ch-1&2. Power Sharing & Federalism  Ch-3 & 4. Democracy and Diversity &Gender, Religion and Caste	As per the PT-I Syllabus  Are divisions inherent to the working of democracy? What has been the effect of caste on politics and of politics on caste? How has the gender division shaped politics? How do communal divisions affect democracy?	-

**BLUEPRINT**

TIME: 2 Hrs.

MAX. MARKS: 50

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-4. The Making of a Global World OR Ch-5. The Age of Industrialization OR Ch-6. Work, Life and Leisure cities of the Contemporary World	2	1	-	5	10
2	Ch-7. Print, Culture and the Modern World OR Ch-8. Novels, Society and History (Any one)	1	-	1	6	12
3	Ch-1. Resources and Development	1	-	-	1	02
4	Ch-3. Water Resources	1	1	-	4	08
5	Ch-4. Agriculture	-	-	1	5	10
6	Ch-1. Development	1	1	-	4	08
7	Ch-2. Sectors of the Indian Economy	-	1	1	8	16
8	Ch-1. Power Sharing	1	-	-	1	02
9	Ch-2. Federalism	-	1	-	3	06
10	Ch-3. Democracy and Diversity	-	1	-	3	06
11	Ch-5. Gender, Religion and Caste	-	-	1	5	10
12	Map Work(History)	2	-	-	2	04
13	Map work(Geography)	-	1	-	3	06
	<b>Total</b>	<b>9X 1 = 9</b>	<b>7 X 3 = 21</b>	<b>4 X 5 = 20</b>	<b>50</b>	<b>100</b>

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

**History- 13 Marks / Geography- 13 Marks / Political Science- 12 Marks / Economics- 12 Marks**

**SUBJECT- FIT****NAME OF THE BOOK:** Foundation of Information technology

<b>CHAPTER</b>	<b>CONTENT</b>	<b>LAB ACTIVITY/ PRACTICAL</b>
Ch-1 Introducing internet	As per PT.1 syllabus	
Ch-2 Internet and web services	<ol style="list-style-type: none"><li>1. Information retrieval</li><li>2. Search engines</li><li>3. Working with FTP</li><li>4. Web services</li><li>5. Chat</li><li>6. E-mail</li><li>7. Video conferencing</li><li>8. E-learning, E-banking, E-shopping, E-reservation, E-groups and social networking</li></ol>	
Ch-3 Introduction to Database	<ol style="list-style-type: none"><li>1. Database functioning</li><li>2. Designing a database</li></ol>	
Ch-4 MS Access	<ol style="list-style-type: none"><li>1. Starting MS-Access</li><li>2. Creating MS-Access database</li><li>3. Designing tables</li><li>4. Table creation methods</li><li>5. Entering &amp; editing data in a table</li><li>6. Opening an existing database</li><li>7. Navigating in table</li><li>8. Table and field specifications</li><li>9. Record validation rules</li><li>10. Sorting and indexing</li><li>11. Some useful shortcut keys</li><li>12. Queries</li></ol>	Create Database.
Ch-5 HTML-1 Basic HTML Elements	<ol style="list-style-type: none"><li>1. HTML and its capabilities</li><li>2. History of HTML</li><li>3. Writing HTML Document</li><li>4. Basic terminology</li><li>5. HTML tag Structure</li><li>6. Basic HTML tags</li><li>7. Logical and physical text styles</li><li>8. Special characters</li><li>9. Combining tags</li><li>10. Lists in HTML</li></ol>	Create web pages

**BLUE PRINT****TIME:- 2 Hrs.****MAX. MARKS: 40**

<b>Chapter Name</b>	<b>MCQ (1 Marks)</b>	<b>VSA (1 Marks)</b>	<b>Short Answers (2 Marks)</b>	<b>Short Answers (3Marks)</b>	<b>Long Answers (5 Marks)</b>	<b>Total marks</b>	<b>Percentage (%) Weightage</b>
Ch-1 Introducing internet	1	1		1		5	12.5
Ch-2 Internet and web services	1	1	1			4	10
Ch-3 Introduction to Database	1	2	1	1	1	13	32.5
Ch-4 Ms Access	1	1	1	1		7	17.5
Ch-5 HTML-1 Basic HTML Elements	1		1	1	1	11	27.5
<b>Total</b>	<b>5x1=5</b>	<b>5x1=5</b>	<b>4x2=8</b>	<b>4x3=12</b>	<b>2x5=10</b>	<b>40</b>	<b>100</b>

**SUBJECT- ART EDUCATION**

<b>CONTENT</b>
<ul style="list-style-type: none"> <li>• <b>Still life</b></li> <li>• <b>Colour tone</b></li> <li>• <b>Nature study</b></li> <li>• <b>Landscape</b></li> <li>• <b>Human body fundamentals</b></li> <li>• <b>Portrait study</b></li> <li>• <b>Composition</b></li> <li>• <b>Craft</b> <ol style="list-style-type: none"> <li>1. Recycled crafts</li> </ol> </li> </ul>