

MT. COLUMBUS SCHOOL
Dakshinpuri, New Delhi – 62
Periodic Test- III & Final Syllabus (2018 -2019)

Class - X
ENGLISH

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

CHAPTERS	CONTENT	ACTIVITY
<u>LITERATURE READER</u> (FICTION) F1- Two Gentlemen of Verona F2 – Mrs. Packletide’s Tiger F3 – The Letter F4- A Shady Plot F5- Patol Babu F6- Virtually True (POETRY) P1- The Frog and the nightingale P2 – Not marble, nor the gilded monuments P3 – Ozymandias P4- The Rime of the Ancient Mariner P5- Snake (DRAMA) D1- The Dear Departed D2- Julius Caesar (NOVEL) 1942, June12 to 1944 <u>WRITING & GRAMMAR</u> 1. Story Writing 2. Formal Letter (complaints, placing order, enquiry, letter to the editor) 3. Sentence Reordering 4. Sentence Transformation 5. Gap Filling 6. Editing 7. Omission <u>MAINCOURSE BOOK</u> (for practice) <u>WORKBOOK</u> (for practice)	*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 *Usage of formal letters *Essential components of these writing tasks *Their applications in current day	1. <u>Assessment of Listening Skills</u>

BLUEPRINT**TIME: 3 Hrs.****MAX. MARKS: 50**

Typology	Testing competencies/ learning outcomes	VSAQ 1 mark	SAQ 30-40 words 2 marks	LAQ-II 100-120 words 8 marks	VLAQ 200- 250 words (HOTS) 10 marks	Marks
Reading Skills	Conceptual understanding, decoding, analyzing, inferring, interpreting and vocabulary	12	04	---	---	20
Creative Writing Skills and Grammar	Expressing an opinion, reasoning, justifying, illustrating, appropriacy of style and tone, using appropriate format and fluency. Applying conventions, using integrated structures with accuracy and fluency	12	---	01	01	30
Literature Textbook and Extended Reading Texts	Recalling, reasoning, appreciating, applying literary conventions, extrapolating, illustrating and justifying etc. Extracting relevant information, identifying the central theme and sub themes, understanding the writer's message and writing fluently.	04	04	01	01	30
Total		28 x 01 = 28 marks	08 x 02 = 16 marks	02 x 08 = 16 marks	02 x 10 = 20 marks	80 marks

पाठ का नाम	क्रियाकलाप	दत्तकार्य
<p>क्षितिज पाठ 1 सूरदास पाठ 2 तुलसीदास पाठ 5 सूर्यकांत त्रिपाठी 'निराला' पाठ 6 नागार्जुन पाठ 7 गिरिजा कुमार माथुर पाठ 8 ऋतुराज पाठ 9 मंगलेश डबराल पाठ 10 नेताजी का चश्मा पाठ 11 बालगोबिन भगत पाठ 12 लखनवी अंदाज पाठ 13 मानवीय करुणा की दिव्य चमक पाठ 14 एक कहानी यह भी पाठ 16 नौबतखाने में इबादत</p>	<p>लेखन तथा पठन</p>	<p><u>पाठ से अभ्यास एवं अभ्यासेतर प्रश्न</u></p>
<p>कृतिका— पाठ 1 माता का अँचल पाठ 2 जॉर्ज पंचम की नाक पाठ 3 साना—साना हाथ जोड़ि</p>		
<p>व्याकरण — रचना के आधार पर वाक्य के भेद वाच्य पद—परिचय रस निबंध लेखन अपठित बोध पत्र लेखन विज्ञापन लेखन</p>		

प्रश्न पत्र का स्वरूप

समय- 3 घण्टे

पूर्णांक-80

क्रम संख्या	पाठ्यक्रमानुसार इकाइयाँ	इकाई पर आवंटित अंक	अंकवार प्रश्नों की संख्या			कुल प्रश्न
			1 अंक	2 अंक	4 अंक	
1	अपठित अवबोध	15				2
2	व्याकरण रचना के आधार पर वाक्य के भेद वाच्य पद-परिचय रस	3 4 4 4			3 (1X4) 1 (1X3)	4
3	पाठ्यपुस्तक क्षितिज कृतिका	26 4				4 1
4	निबंध लेखन	10				1
5	पत्र लेखन	5				1
6	विज्ञापन लेखन	5				1
		80				14

MATHEMATICS

NAME OF THE BOOK: Mathematics

CHAPTER	CONTENT	LAB ACTIVITY
Chapter 1,2,3,4,5,7,14,15 Chapter 6: Triangles Chapter 8: Introduction to trigonometry	<ul style="list-style-type: none"> As per the PT-I syllabus. As per the PT-II syllabus. Definitions, examples, counter examples of similar triangles. If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar. If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse, the triangles on each side of the perpendicular are similar to the whole triangle and to each other. (Prove) The ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides. (Prove) In a right triangle, the square on the hypotenuse is equal to the sum of the squares on the other two sides. 	<ul style="list-style-type: none"> Activity: If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, then the other two sides are divided in the same ratio. Activity: In a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.

Chapter 9: Some applications of trigonometry	<ul style="list-style-type: none"> • (Prove) In a triangle, if the square on one side is equal to sum of the squares on the other two sides, the angles opposite to the first side is a right angle. • Trigonometric ratios of an acute angle of a right-angled triangle. • Proof of their existence (well defined); motivate the ratios whichever are defined at 0° and 90° Values (with proofs) of the trigonometric ratios of 30°, 45° and 60° . • Relationships between the ratios. Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only 4 simple identities to be given. 	Ch 8 : Worksheet
Chapter 10: Circles	<ul style="list-style-type: none"> • Trigonometric ratios of complementary angles. • Heights and distances: Angle of elevation, Angle of Depression. • Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, 60° • Division of a line segment in a given ratio (Internally). 	Ch 9 : Worksheet Activity: To verify that the lengths of tangents drawn from an external point to a circle are equal.
Chapter 11: Constructions	<ul style="list-style-type: none"> • Tangent to a circle at point of contact. • (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. • (Prove) The lengths of tangents drawn from an external point to a circle are equal. 	Activity: To obtain the formula for the area of a circle.
Chapter 12: Area related to circles	<ul style="list-style-type: none"> • Tangents to a circle from a point outside it. Construction of a triangle similar to a given triangle. • Motivate the area of a circle; area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. • (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° and 120° only. Plane figures involving triangles, simple quadrilaterals and circle should be taken.) 	Activity: To find the volume of a right circular cone through activity.
Chapter 13: Surface areas and volumes	<ul style="list-style-type: none"> • Surfaces areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders, cones. • Frustum of a cone. • Problems involving converting one type of metallic solid into another and other mixed problems. (Problems with combination of not more than two different solids be taken.) 	

Mathematics

Units	Unit Name	Marks
I	Number System	06
II	Algebra	20
III	Coordinate Geometry	06
IV	Geometry	15
V	Trigonometry	12
VI	Mensuration	10
VII	Statistics & Probability	11
		80

BLUE PRINT

S. No.	Typology of Questions	Very Short 1 Marks	Short 2 Marks	Long 3 Marks	Very Long 4 Marks	Total Marks	Percentage (%) Weightage
1	Remembering	2	2	2	2	20	25%
2	Understanding	2	1	1	4	23	29%
3	Application	2	2	3	1	19	24%
4	High Order Thinking Skills	-	1	4	-	14	17%
5	Evaluation	-	-	-	1	4	5%
	Total	6x1=6	6x2=12	10x3=30	8x4=32	80	100%

SCIENCE

SUBJECT	CHAPTERS	CONTENT	ACTIVITY	EXPERIMENT
PHYSICS	CH-12 Electricity	As per the PT-I syllabus.	-----	-----
	Ch-13 Magnetic effects of electric current.	As per the PT-II syllabus.		-----
	CH-10 Light	As per the PT-II syllabus.		
	CH-11 Human eye and colourful world	Structure and function of human eye; Power of accommodation; Defects of vision and their correction; Refraction of light through a prism; Dispersion of white light; Atmospheric refraction; Scattering of light	To make a power point presentation showing differences between the eyes of the following organisms: a. Human eye and amphibian. b. Human eye and pisces. c. Human eye and bird. d. Human eye and insects.	Dispersion of white light by the glass prism.
	CH-14 Sources of energy	Good source of energy; Conventional sources of energy; Alternative or non-conventional sources of energy; Environmental consequences	To show the different parts of solar cooker and its working.	-----
CHEMISTRY	CH-1 Chemical reactions and equations	As per the PT-I syllabus.		
	CH-2 Acids, Bases and Salts.	As per the PT-II syllabus.		
	CH-3 Metals and Non-Metals.	As per the PT-II syllabus.		
	CH-4 Carbon and its compound.	Bonding in carbon; Versatile nature of carbon; Saturated and unsaturated carbon compound;	To study the comparative cleaning capacity of a sample of soap in soft and	To study the properties of acetic acid.

BIOLOGY		Nomenclature of carbon compounds; Homologous series; Chemical properties of carbon compounds.	hard water.	-----
	CH-5 Periodic classification of elements.	Dobereiner's triad; Newland's law of octave; Mendeleev's periodic table; The Modern periodic table; Trends in the Modern periodic table.	To study variation in atomic radii in groups and periods.	
	CH-6 Life processes	As per the PT-I syllabus	-----	
	CH-7 Control and Co-ordination.	As per the PT-II syllabus		
	CH-15 Our environment	As per the PT-II syllabus		
	CH-9 Heredity and Evolution	As per the PT-II syllabus		-----
	CH-8 How do organisms reproduce?	The importance of variation; Types of asexual reproduction; Sexual reproduction in plants and human being; Male and female reproductive system; Reproductive health.	To separate the reproductive parts of a flower.	----- -----
CH-16 Management of Natural resources	Three R's; Need to manage our resources; Forest and wild life; Stakeholders; People's participation for conservation of natural resources; Advantages and disadvantages of dams ; Water harvesting; Coal and petroleum.	List five things you have done over the last one week to conserve our natural resources.		

BLUEPRINT

Time : 3 Hours

Max. Marks : 80

S. No.	Typology of Questions	Very Short Answer (VSA) 1 Mark	Short Answer - I (SAI) 2 Marks	Short Answer - II (SAII) 3 Marks	Long Answer (LA) 5 Marks	Total Marks	% Weightage
1	Remembering (Knowledge based simple recall questions, to know specific facts, terms, concepts, principles, or theories, Identify, define or recite, information)	2	-	1	1	10	15%
2	Understanding (Comprehension - to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase, or interpret information)	-	1	4	2	24	35%
3	Application (Use abstract information in concrete situation, to apply knowledge to new situations, use given content to interpret a situation, provide an example or solve a problem)	-	1	2	2	18	26%
4	High Order Thinking Skills (Analysis & Synthesis - Classify, compare, contrast or differentiate between different pieces of information, organize and / or integrate unique pieces of information from a variety of sources)	-	-	1	1	8	12%
5	Inferential and Evaluative (Appraise, judge and / or justify the value or worth of a decision or outcome, or to predict outcomes based on values)	-	1	1+1*	-	8	12%
Total (Theory Based Questions)		2x1=2	3x2=6	10x3=30	6x5=30	68(21)	100%
Practical Based Questions (PBQs)			6x2=12	-	-	12(6)	
Total		2x1=2	9x2=18	10x3=30	6x5=30	80(27)	

SOCIAL SCIENCE

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

	CONTENTS	ACTIVITIES
HISTORY		
Ch-4. The making of a Global World OR Ch-5. The Age of Industrialization OR Ch-6. Work, Life & Leisure (Any one)	As per the PT-I Syllabus	-
Ch-7. Print, Culture and the Modern World OR Ch-8. Novels, Society and History (Any one)	As per the PT-II Syllabus	-
CH-1. The Rise of Nationalism in Europe OR CH-2. The Nationalist Movement in Indo-China (Any one)	The growth of nationalism in Europe after the 1830s, The ideas of Giuseppe Mazzini, General characteristics of the movements in Poland, Hungary, Italy, Germany and Greece OR Factors leading to growth of Nationalism in Indo-China, French colonialism in Indo- China, Phases of struggle against the French, The ideas of Phan Chu Trinh, Phan Boi Chau, Ho Chi Minh, The second World War and liberation struggle, America and Vietnam war.	Map Work
CH-3. Nationalism in India	Impact of First World war, Khilafat, Non-Cooperation and differing Strands with in the movements, Salt Satyagraha, Movements of peasants, workers, tribal, Limits of civil disobedience, The sense of collective belonging.	Map Work
GEOGRAPHY		
Ch-1. Resources and Development	As per the PT-I Syllabus	-
Ch-3. Water Resources Ch-4. Agriculture	As per the PT-II Syllabus	-
CH-5. Minerals and Energy resources	Types of minerals, Use and economic importance of minerals, Conservation, Types of power resources, Conventional and non- conventional, Distribution and utilisation, Conservation.	Distribution of minerals (Map Work)

CH-6. Manufacturing Industries	Types, Contribution of industries to the national economy, industrial pollution and degradation of environment, measures to control degradation.	Spatial distribution (Map Work)
CH-7. Lifelines of National Economy	Importance of means of communication and transportation, Trade & Tourism	
ECONOMICS		
Ch-1. Development	As per the PT-I Syllabus	-
Ch-2. Sectors of the Indian Economy	As per the PT-II Syllabus	-
CH-3. Money and Credit	Formal and informal financial institutions for savings and credit-General introduction, Select one formal institution such as a nationalized commercial bank and a few informal institutions, Local money lenders, landlords, Chit funds and private finance companies.	Discussion on various activities performed in bank.
CH-4. Globalization and the India Economy	Production across countries, Foreign trade and Interaction of markets, what is Globalization? Factors, WTO, impact, Fair globalization.	
CH-5. Consumer Rights	How consumer is exploited factors causing exploitation of consumers, Rise of consumer awareness, how a consumer should be in a market, Role of government in consumer protection	Collect of Logos of standards available for various goods and services. Collect stories of consumer exploitation and grievances from newspapers and consumer courts.
POLITICAL SCIENCE		
Ch-1 & 2. Power Sharing & Federalism	As per the PT-I Syllabus	-
Ch-3 & 4. Democracy and Diversity & Gender, Religion and Caste	As per the PT-II Syllabus	-
CH-5. Popular Struggles and Movement	-	Is to be done as Project Work Only and will not be evaluated in the theory.
CH-6. Political Parties	What roles do political parties plays in competition and contestation? Which are the major national and regional parties in India?	

CH-7. Outcomes of Democracy	Can or should democracy be judged by its outcomes? What outcomes can one reasonably expects of democracies? Does democracy in India meet these expectations? Has democracy led to development, security and dignity for the people? What sustains democracy in India?	
CH-8. Challenges to Democracy	Is the idea of democracy shrinking? What are the major challenges to democracy in India? How can democracy be reformed and deepened? What role can an ordinary citizen play in deepening democracy?	

BLUEPRINT

TIME: 3 Hrs.

MAX. MARKS: 80

S. No.	Type of Questions	Very Short Answer (1 Mark)	Short Answer (3 Marks)	Long Answer (5 Marks)	Total Marks	Percentage (%) Weightage
1	Remembering	-	2	2	16	20
2	Understanding	3	1	2	16	20
3	Application	2	3	2	21	26
4	High Order Thinking Skills	2	3	1	16	20
5	Creating, Evaluation & Multi-Creating, Evaluation and Multi-Disciplinary	-	2	-	6	8
6	Map	-	-	1	5*	6
	Total	1 X 7 = 7	3 X 11 = 33	5 X 8 = 40	80	100

***01 Map Question of 5 marks having 5 items carrying 01 mark each.**

Weightage given to all parts:

History- 20 Marks/Geography- 20 Marks/Political Science- 20 Marks/Economics- 20 Marks

FIT

NAME OF THE BOOK: Foundation of
Information technology

CHAPTER	CONTENT	LAB ACTIVITY/ PRACTICAL
Ch-1,2,3,4,5	As per PT.I syllabus As per PT.II syllabus	
Ch-6 IT Application-I	1. Business computing project (Access 2010) 2. Web page Design(HTML)	Create Project
Ch-7 HTML–II : Images, Links and Tables	1. Inserting Images 2. Subscripts(SUB Tag) 3. Superscripts(SUP Tag) 4. Linking 5. Sending E-mail from a browser 6. Tables	Create Website homepage.
Ch-8 XML- Extensible Markup Language.	1. XML, XML versus other technologies 2. Features and working in XML 3. Logical structure of XML Document and its categories. 4. Validating XML Documents 5. XML vs. HTML Revisited 6. Advantages of XML.	Create web pages
Ch-9 IT Applications-II	1. Web site Designing 2. XML Project	
Ch-10 Societal Impact of IT	1. Major Issues, Viruses, Data backup and Recovery 2. Social Networking and Information security 3. Information Security Provisions in E- Commerce 4. Benefits of ICT 5. Virtual Schools 6. Emergence of Knowledge Economy 7. Impact of ICT in Society	

BLUE PRINT

Theory: 40 Marks

Practical: 60

Unit	Description	Marks	
		Practical	Theory
Unit I	Basics of Information Technology	10	-
Unit II	Information Processing Tools	25	30
Unit III	Societal Impacts of IT	05	-
Unit IV	IT Applications	-	30
Total	40	60	

CLASS X : (Practical)

Time : 4 hours

Marks : 60

(A) HANDS ON EXPERIENCE

30 Marks

1. Database Design: *
 - Creating and entering data into a database
 - Setting the primary key
 - Inserting meaningful data and organising
 - Creating Query with the same design view of the table.
2. **Webpage Designing ***
 - Adding a title to webpage
 - Formatting Text
 - Adding Ordered/Unordered Lists
 - Writing Text in Paragraphs
 - Inserting Image
 - Adding content in Tabular Form
 - Adding Internal / External links.

The students are supposed to know the tools and style for designing domain specific web pages from real life applications and the topics mentioned in the syllabus.

3. XML Assignment*

Students to be asked to create an XML document on the lines of XML concepts covered in theory syllabus.
*Printouts of the document(s) should be attached with the answer sheet.

(B) IT APPLICATIONS REPORT FILE

15 Marks

Students are supposed to make an IT Application Report File containing real life assignments using a Database Management Tool and HTML

- 5 Database Solutions
- 8 HTML source code along with browser view
- 2 XML Documents Source Code and View

(C) IT Application project using database and website design in a domain such as School Management, Public Services Computing, Business Computing.

10 Marks

(D) VIVA VOCE

05 Marks

Viva based on IT applications report file.

ART EDUCATION

PT-III	YEARLY(PRE-BOARD)
<ul style="list-style-type: none">• MODERN ART• CARTOON FUNDAMENTAL• CARICATURE• STORY BOARD• POSTER DESIGN• CRAFT <p>1. 3D OBJECTS WITH CARDBOARD</p>	<ul style="list-style-type: none">• LOGO DESIGNING• TYPOGRAPHY• BOOK COVER DESIGNING• CRAFT <p>1. CLAY MODELLING(WATER BASED CLAY)</p>