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
Beehive **(Prose)** 1. The Fun They Had 2. The Sound of Music **(Poetry)** 1. The Road Not Taken **Moments** 1. The Lost Child 2. The Adventures of Toto **Writing & Grammar** 1. Letter to the editor 2. Gap filling 3. Editing 4.Omission	• 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. Role Play enacting the change of education system. 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(%) Weightage
SECTION : A (05 marks)					16.7
Unseen Passage	5			5	
SECTION : B (15 marks)		-	-		50
Letter to the editor	-	-	1	5	
Editing	3	-	-	3	
Omission	2	-	-	2	
Gap Filling	5	-	-	5	
SECTION : C (10 marks)					33.3
Question Answers	-	3	-	6	
Reference to the Context	2	-	-	2	
Value Based Question	-	1	-	2	
Total	**17X1=17**	**4X2=8**	**1X5=5**	**30**	**100**

विषय–हिन्दी

पाठ का नाम	क्रियाकलाप	दत्तकार्य
स्पर्श पाठ–2 दुख का अधिकार पाठ–3 एवरेस्ट : मेरी शिखर यात्रा पाठ–9 पद पाठ–10 दोहे **संचयन** पाठ–1 गिल्लू **व्याकरण और लेखन** वर्ण–विच्छेद, अनुस्वार, अनुनासिक अनुच्छेद और पत्र लेखन	आशु–भाषण कौशल–पठन	साहित्य भाग से अभ्यासोतर प्रश्नोत्तर और व्याकरण भाग से अभ्यास 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	**व्याकरण** वर्ण–विच्छेद अनुस्वार अनुनासिक	 4 2 2		4			4
3	**पाठ्यपुस्तक** **(स्पर्श)** पाठ–2 दुख का अधिकार पाठ–3 एवरेस्टः मेरी शिखर यात्रा पाठ–9 पद (रैदास) पाठ–10 दोहे **(संचयन)** पाठ–1 गिल्लू	 2 2 2 2 4		4	 1		5
4	**लेखन** अनुच्छेद / पत्र	5				1	1
	योग	**30**	**5X1=5**	**8X2=16**	**1X4=4**	**1X5=5**	**11**

SUBJECT-MATHEMATICS

NAME OF THE BOOK: Mathematics

CHAPTER	CONTENT	LAB ACTIVITY
Chapter 1 : Number Systems	1. 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. 2. Examples of non-recurring / non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as $\sqrt{2}$, $\sqrt{3}$ 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. 3. Existence of $\sqrt{x}$ for a given positive real number x (visual proof to be emphasized). 4. Definition of nth root of a real number. 5. Rationalization (with precise meaning) of real numbers of the type $1/(a+b\sqrt{x})$ and $1/(\sqrt{x}+\sqrt{y})$ (and their combinations) where x and y are natural number and a and b are integers. 6. 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.	To construct a square root spiral.
Chapter 2 : Polynomials	1. 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 $ax^2 + bx + c$, $a \neq 0$ 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: 2. $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$ 3. $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy\,(x \pm y)$ 4. $x^3 \pm y^3 = (x \pm y)\,(x^2 \pm xy + y^2$ 5. $x^3 + y^3 + z^3 - 3xyz = (x + y + z)\,(x^2 + y^2 + z^2 - xy - yz - zx)$ and their use in factorization of polynomials.	To verify a algebraic Identity $(a+b)^2 = a^2+2ab+b^2$

BLUE PRINT

TIME: 1:15 Hrs. **MAX. MARKS: 30**

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

SUBJECT – SCIENCE

NAME OF THE BOOK: Science

	CONTENT	**ACTIVITY**	**EXPERIMENT**
PHYSICS 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 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 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

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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
Total		**1X3=3**	**2X5=10**	**3X4=12**	**5X1=5**	**30**	**100**

SUBJECT- SOCIAL SCIENCE

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

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

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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
	Total	**7 X 1 = 07**	**6 X 3 = 18**	**1 X 5 = 05**	**30**	**100**

***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 2. Computer Operating System 3. Performing Basic File operations 4. The Internet 5. The World Wide Web 6. Digital technology & Media Devices 7. Computer Security & Privacy	1. Performing Basic File Operations 2. Basic of Internet & World Wide Web 3. Digital Technology & Media Devices 4. Computer Security & Privacy

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TIME: 1 Hr. **MAX. MARKS: 20**

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

SUBJECT – ART EDUCATION

CONTENT
• **VISUAL ARTS** 1. BASICS AND TERMS • **MODELLING** 1. PENCIL SHADING • **LEGENDS WHO INSPIRE**