

# **SYLLABUS (X)** (2024-25)

**SUBJECT : ENGLISH**

## **PERIODIC TEST-1**

### **First Flight**

#### **Prose**

1. A Letter to God
2. Nelson Mandela: Long Walk to Freedom
3. Two Stories About Flying

#### **Poetry**

1. Dust of Snow
2. Fire and Ice
3. A Tiger in the Zoo
4. How to Tell Wild Animals

### **Footprints Without Feet**

1. A Triumph of Surgery
2. The Thief's Story
3. The Midnight Visitor

#### **Grammar**

1. Determiners
2. Tenses

#### **Writing**

Formal Letter based on a given situation (100-120 words)

## **PERIODIC TEST-2**

### **First Flight**

#### **Prose**

1. From the Diary of Anne Frank
2. Glimpses of India
3. Mijbil the Otter

#### **Poetry**

1. The Ball Poem
2. Amanda!
3. The Trees
4. Fog

### **Footprints without Feet**

1. A Question of Trust
2. Footprints Without Feet
3. The Making of a Scientist

#### **Grammar**

1. Subject-Verb Concord

#### **Writing**

Formal Letter based on a given situation (100-120 words)

## **PERIODIC TEST-3**

### **First Flight**

#### **Prose**

1. Madam Rides the Bus
2. The Sermon at Benares
3. The Proposal

#### **Poetry**

1. The Tale of Custard the Dragon
2. For Anne Gregory

### **Footprints without Feet**

1. The Necklace
2. Bholi
3. The Book That Saved the Earth

#### **Grammar**

1. Reported Speech (Commands and Requests, Statements and Questions)

#### **Writing**

Analytical Paragraph (100-120 words)

## **SUBJECT : HINDI**

### **प्रथम सामयिक परीक्षा**

- (क) गद्य अनुभाग क्षितिज
  - 1. नेताजी का चश्मा
  - 2. बालगाबिन भगत
- (ख) काव्य अनुभाग क्षितिज
  - 1. सूरदास के पद
  - 2. राम-लक्ष्मण-परशुराम संवाद
- (ग) कृतिका अनुपूरक
  - 1. माता का आँचल
- (घ) व्याकरण
  - 1. रचना के आधार पर वाक्य के भेद

### **द्वितीय सामयिक परीक्षा**

- (क) गद्य अनुभाग क्षितिज
  - 1. लखनवी अंदाज
  - 2. एक कहानी यह भी
- (ख) काव्य अनुभाग क्षितिज
  - 1. आत्मकथ्य
  - 2. उत्साह
  - 3. अट नहीं रही है
- (ग) कृतिका अनुपूरक
  - 1. साना-साना हाथ जोड़ि....
- (घ) व्याकरण
  - 1. वाच्य
  - 2. पद-परिचय

### **तृतीय सामयिक परीक्षा**

- (क) गद्य अनुभाग क्षितिज
  - 1. नौबतखाने में इबादत
  - 2. संस्कृति
- (ख) काव्य अनुभाग क्षितिज
  - 1. यह दंतुरित मुसकान
  - 2. फसल.
  - 3. संगतकार
- (ग) कृतिका अनुपूरक
  - 1. मैं क्यों लिखता हूँ
- (घ) व्याकरण
  - 1. अलंकार
  - शब्दालंकार- श्लेष
  - अर्थालंकार- उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण

**SUBJECT : MATHEMATICS**

EXAMINATION	CHAPTER No.	CHAPTER NAME	TOPICS	PERIODS	MARKS (Practice Test/ Pre-Board)
PT 1	1	Real Number	Fundamental theorem of Arithmetic, Proofs of irrationality	15	6
	2	Polynomials	Zeros of a polynomial, Relationship between zeros and their coefficients	7	5
	3	Pair of Linear Equations in Two Variables	Graphical method, Substitution method, Elimination method	15	5
	4	Quadratic Equations	Solution by Factorization method and quadratic formula, Relationship between discriminant and nature of roots, situational problems	15	5
	8	Introduction to Trigonometry	Trigonometric ratios, Values of trigonometric ratios of 30, 45, 60 degree angles, Relationships between the ratios	10	2
PT 2	5	Arithmetic Progression	$n$ th term and sum of $n$ th term of an A.P., Application in solving related problems	10	5
	6	Triangles	Thales' theorem and its converse, Similarity theorems AAA, SSS and SAS	14	8
	7	Coordinate Geometry	Graphs of linear equations, Distance formula and section formula	12	6
	10	Circles	Theorems related to tangents and their applications	10	7
	8	Introduction to Trigonometry	Proof and applications of Trigonometrical identity	10	5
PT 3	9	Some applications of Trigonometry	Heights and Distances	10	5
	12	Areas related to circle	Circumference, area, sector and segment of a circle, Problems related to 60, 90 and 120 degrees central angles only	12	5
	13	Surface Area and Volume	Surface areas and volumes of	10	5

			combination of any two 3-D shapes.		
Practice Test/ Pre-Board (Including syllabus of PT 1, PT 2 and PT 3)	14	Statistics	Mean, Median and Mode of a grouped data	15	6
	15	Probability	Finding probability of an event	5	5
			<b>TOTAL :-</b>	<b>170</b>	<b>80</b>

## SUBJECT : SCIENCE

### PHYSICS

EXAMINATION (PT1/T1/PT2/T2)	CHAPTER No.	CHAPTER NAME	TOPICS	PERIODS (required)	MARKS
PT-1	10 & 11	Light-Reflection and Refraction.  The human eye and the colorful world.	1. Reflection of light by curved surfaces. 2. Images formed by spherical mirrors. 3. Centre of curvature, principal axis, principal focus, sign convention for $u, v, f, R, h_o$ & $h_i$ ; $f=R/2$ . 4. Mirror formula, magnification (derivation not required), Laws of refraction, refractive index. 5. Refraction of light by spherical lens, image formed by spherical lenses, lens formula (derivation not required), magnification, Power of lens. 6. Functioning of a lens in human eye, defect of vision and their correction, applications of spherical mirrors and lenses. 7. Refraction of light through a prism, dispersion of light, scattering of light, application in daily life (excluding color of the sun at sunrise and sunset).	25	13
PT-2	12	Electricity(Effect of current)	1. Electric current, potential difference and electric current. 2. Ohm's law, resistance, resistivity, factors on which the resistance of a conductor depends, 3.	20	13

			Series combination of resistors, parallel combination of resistors and its application in daily life. 4. Heating effect of electric current and its application in daily life. 5. Electric power, interrelation between P,V,I and R.		
PT-3	13	Magnetic effects of electric current.	1. Magnetic field, field lines, field due to current carrying conductor. 2. Field due to current carrying coil or solenoid. 3. Force on current carrying conductor, Fleming's left hand rule. 4. Direct current, alternating current, frequency of AC. Advantage of AC over DC. Domestic electric circuit.	20	13
Pre Board/Annual	10,11,12 &13	All chapters of PT-1,PT-2 & PT-3.	Entire syllabus	Remaining 15 periods can be used for revision as per convenience.	26
				<b>TOTAL</b>	<b>80</b>

## CHEMISTRY

EXAMINATION (PT1/T1/PT2/T2)	CHAPTER No.	CHAPTER NAME	TOPICS	PERIODS (required)	MARKS
PT-1	1	Chemical Reaction and Equation	1. Chemical equation, 2. Balanced chemical equation, 3. Implications of a balanced chemical equation, 4. Types of chemical reactions: a-combination, b-decomposition, c-displacement, d-double displacement, e-precipitation, f-endothermic and exothermic reactions, g-oxidation and reduction.	20	13
PT-2	2	Acids, Bases and Salts	1. Their definitions in terms of furnishing of H <sup>+</sup> and OH <sup>-</sup> ions, General properties, examples and	20	13

			<p>uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life;</p> <p>2. Preparation and uses of</p> <ol style="list-style-type: none"> <li>Sodium Hydroxide,</li> <li>Bleaching powder,</li> <li>Baking soda,</li> <li>Washing soda and</li> <li>Plaster of Paris.</li> </ol>		
PT-3	3	Metals and Nonmetals	<ol style="list-style-type: none"> <li>Properties of metals and non-metals;</li> <li>Reactivity series;</li> <li>Formation and properties of ionic compounds;</li> <li>Basic metallurgical processes;</li> <li>Corrosion and its prevention.</li> </ol>	20	13
Annual	4	Carbon and its Compounds	<ol style="list-style-type: none"> <li>Covalent bonding in carbon compounds.</li> <li>Versatile nature of carbon.</li> <li>Homologous series.</li> <li>Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes),</li> <li>Difference between saturated hydro carbons and unsaturated hydrocarbons.</li> <li>Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction).</li> <li>Ethanol and Ethanoic acid (only properties and uses),</li> <li>Soaps and detergents.</li> </ol>	20	27
			<b>TOTAL :-</b>	<b>80</b>	

## BIOLOGY

EXAMINATION (PT1/PT2/PT3)	CHAPTER No.	CHAPTER NAME	TOPICS	PERIODS (required)	MARKS
PT-1	6.	Life Processes	1. Autotrophic & Heterotrophic Nutrition in Plants & Animals.	10	
			2. Respiration & its types and Mechanism.	4	
			3. Human Respiratory System.	4	

			4.Transport System in Plants.	4	Total – 14 Marks.
PT-2	6.	<b>Life Processes</b>	1.Transport System in Humans.	4	
			2.Excretion in Humans & Plants.	4	
	7.	<b>Control and Co-ordination</b>	2.Human Nervous System, Reflex Action, Voluntary & Involuntary System.	8	
			3.Tropic Movements, Plant Hormones	4	
			4.Human Endocrine System.	4	Total – 14 Marks.
PT-3	8.	<b>How do Organisms Reproduce?</b>	1.Asexual Reproduction & its types	4	
			2.Sexual Reproduction in Plants.	3	
			3.Human Reproductive System.	5	
			4.Reproductive Health & Birth control Methods, HIV/AIDS.	3	
	9.	<b>Heredity and Evolution</b>	1.Heredity & Mendel's Law of Inheritance.	5	
			2.Sex Determination in Humans & some other animals.	2	Total – 14. Marks.
Pre-Board/ Final Exam.	1 5.	<b>Our Environment</b>	1.Ecosystem: Biotic & Abiotic Factors.	3	
			2.Food Chain & Food Web.	3	
			3.Trophic Level & 10% Law	2	
			4.Ozone Depletion, Bio-concentration of Chemicals.	2	
			5.Waste Management (Biodegradable & Non-biodegradable).	2	
	1 6	<b>Sustainable Management of Natural</b>	1.3 R's of Management, 2. Sustainable	10	
			TOTAL:-	90	<b>Total-28 Marks.</b>

**SUBJECT : SOCIAL SCIENCE**

EXAMINATION (PT1/T1/PT2/T2)	CH. No.	CHAPTER NAME	REMARKS	MARKS
<b>PT1</b>	1.	The Rise of Nationalism in Europe (His.)		
	1.	Resources and Development (Geo.)		
	2.	Forest and Wildlife Resources (Geo.)		
	1.	Power Sharing (Civ.)		
	1.	Development (Eco.)		
				<b>40</b>
<b>PT2</b>	2.	Nationalism in India (His.)		
	3.	Water Resources (Geo.)		
	2.	Federalism (Civ.)		
	3.	Gender, Religion and Caste (Civ.)		
	2.	Sectors of the Indian Economy (Eco.)		
				<b>40</b>
<b>PT3</b>	4.	The Age of Industrialization (His.)	<b>Only for Periodic Test</b>	
	4.	Agriculture (Geo.)		
	5.	Minerals and Energy Resources (Geo.)		
	4.	Political Parties (Civ.)		
	3.	Money and Credit (Eco.)		
				<b>40</b>
<b>Board Exam.</b>		<b>PT1+PT2+PT3+ .....</b>		
	3.	The Making of the Global World (His.)		
	5.	Print Culture and the Modern World (His.)		
	6.	Manufacturing Industries (Geo.)		
	7.	Lifelines of National Economy (Geo.)	<b>Only map work</b>	
	5.	Outcomes of Democracy (Civ.)		
	4.	Globalization and the Indian Economy (Eco.)		
		Map Work		
		His. -2 marks Geo. -3 marks		
				<b>80</b>
	5.	Consumer Rights (Eco)	<b>Only for project</b>	
	3.	Livelihoods, Economies and Societies (His)	<b>Interdisciplinary project</b>	
	7.	Lifelines of National Economy (Geo.)	<b>Interdisciplinary project</b>	
	4.	Globalization and the Indian Economy (Eco.)	<b>Interdisciplinary project</b>	



**SUBJECT : COMPUTER SCIENCE**

<b>EXAMINATION (PT1/T1/PT2/T2 )</b>	<b>CH. No.</b>	<b>CHAPTER NAME</b>	<b>TOPICS</b>	<b>PERIODS (required)</b>	<b>MARKS</b>
<b>P1</b>	1	Communication Skills-II	All	8	10
	2	Self-Management Skills-II	All	7	10
	1	Introduction to Artificial Intelligence(AI)	All	10	20
	4	Advance Python	Half	7	
			<b>Total</b>	<b>32</b>	<b>40</b>
<b>P2</b>	3	ICT Skills-II	All	6	15
	2	AI project Cycle	All	8	15
	3	Advance Python	All	10	10
			<b>Total</b>	<b>26</b>	<b>40</b>
<b>P3</b>	4	Entrepreneurial Skills-II	All	3	10
	4	Data Science	All	4	20
	5	Computer Vision	All	3	10
			<b>Total</b>	<b>10</b>	<b>40</b>
<b>Annual</b>	5	Green Skills-II	All	5	5
	6	Natural Language Processing	All	7	10
	7	Evaluation	All	5	10
		Syllabus of P1,P2 &P3			25
			<b>Total</b>	<b>17</b>	<b>50</b>