



PURV INTERNATIONAL SCHOOL

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SYLLABUS FOR CLASS – X (Session 2024-25)

SUBJECT: ENGLISH LANGUAGE AND LITERATURE	
Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 80 Time: 3 Hours
<p>*FIRST FLIGHT: A Letter to God Dust of Snow Fire and Ice Nelson Mandela - Long Walk to Freedom</p> <p>*FOOTPRINTS WITHOUT FEET: A Triumph of Surgery The Thief's Story *Integrated Grammar: Gap filling</p>	<p>*FIRST FLIGHT: A Letter to God, Dust of Snow, Fire and Ice, A Tiger in the Zoo, How to Tell Wild Animals, Nelson Mandela - Long Walk to Freedom, Two stories about flying The Ball Poem, Amanda!, From the Diary of Anne Frank, The Trees</p> <p>*FOOTPRINTS WITHOUT FEET: A Triumph of Surgery, The Thief's Story The Midnight Visitor, A Question of Trust Footprints Without Feet, The Making of a Scientist</p> <p>*LANGUAGE: WRITING SKILLS Formal Letters, Analytical Paragraph *Integrated Grammar: Gap filling, Editing and Transformation of sentences</p>
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 80 Time: 3 Hours
<p>*FIRST FLIGHT: Glimpses of India, Mijbil the Otter, Fog The Sermon at Benares, The Tale of Custard the Dragon, For Anne Gregory</p> <p>*FOOTPRINTS WITHOUT FEET: The Necklace, Bholi *Integrated Grammar: Transformation of sentences</p>	<p>*FIRST FLIGHT: A Letter to God, Dust of Snow, Fire and Ice, Nelson Mandela - Long Walk to Freedom, Two stories about flying, The Ball Poem, Amanda!, From the Diary of Anne Frank, The Trees Glimpses of India, Mijbil the Otter, Fog, The Sermon at Benares, The Tale of Custard the Dragon, For Anne Gregory The Proposal</p> <p>*FOOTPRINTS WITHOUT FEET: A Triumph of Surgery, The Thief's Story, The Midnight Visitor A Question of Trust, Footprints Without Feet, The Making of a Scientist, The Necklace, Bholi</p> <p>*LANGUAGE: WRITING SKILLS Formal Letters, Analytical Paragraph *Integrated Grammar: Gap filling, Editing and Transformation of sentences</p>

SUBJECT: BENGALI	
Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 80 Time: 3 Hours
জ্ঞানচক্ষু, তিন পাহাড়ের কোলে, ব্যঞ্জনসন্ধি	PT1-+বিসর্গসন্ধি, আলোবাবু, পোস্টমাস্টার, অদলবদল, আয় আরো বেঁধে বেঁধে থাকি, সাধু ও চলিত ভাষায় রূপান্তর, বাক্য পরিবর্তন, পত্ররচনা, অনুচ্ছেদরচনা, বোধপরীক্ষণ, সমাস।
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 80 Time: 3 Hours
কাবুলিওয়ালা, বহুরূপী, অনুচ্ছেদরচনা	PT1+HALFYEARLY+PT3+অস্ত্রের বিরুদ্ধে গান, দান প্রতিদান।

SUBJECT: HINDI	
Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 80 Time: 3 Hours
<p>पद्य -- सूरदासकेपद गद्य -- नेताजी काचश्मा व्याकरण -- रचना केआधार पर वाक्यभेद</p>	<p>पद्य -- सूरदास के पद, राम- लक्ष्मण- परशुराम संवाद, आत्मकथ्य, उत्साह अट नहीं रही। गद्य -- नेताजीकाचश्मा,बालगोबिन भगत, लखनवी अंदाज, । कृतिका -- माता का आंचल। व्याकरण -- रचना के आधार पर वाक्य भेद, वाच्य,अनुच्छेद, औपचारिक ईमेल।</p>
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 80 Time: 3 Hours
<p>पद्य -- यह दंतुरित मुस्कान और फसल गद्य -- एककहानी यहभी व्याकरण -- पद - परिचय</p>	<p>पद्य--सूरदासकेपद,राम-लक्ष्मण-परशुरामसंवाद,आत्मकथ्य,उत्साह अटनहींरही, यहदंतुरितमुस्कानऔरफसल, संगतकार। गद्य-- एककहानीयहभी, नेताजीकाचश्मा,बालगोबिनभगत, लखनवीअंदाज,नौबतखाने में इबादत, संस्कृति। कृतिका--माताकाआंचल, साना - सानाहाथजोड़ी, मैं क्योंलिखता हूं। व्याकरण--रचनाकेआधारपरवाक्यभेद,वाच्य, पद - परिचय,अलंकर। लेखन कौशल -- अनुच्छेद,औपचारिकई- मेल, पत्र लेखन, स्वबृतलेखन, विज्ञान लेखन, संदेश लेखन, अपठित गद्यांश, अपठित पद्यांश ।</p>

SUBJECT: SCIENCE	
Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 80 Time: 3 Hours
<p>Ch-1: Chemical reactions and equations (ChemicalSubstances-Nature and Behaviour.) Ch- 5: Life Process Ch-9: Light-Reflection and Refraction</p>	<p>Ch-1: Chemical reactions and equations (Chemical Substances-Nature and Behaviour.) Ch-5: Life processes Ch-9: Light-Reflection and Refraction Ch-6: Control and coordination Ch-2: Acids, Bases, and Salts, Ch10:The Human eye and the colourful world</p>
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 80 Time: 3 Hours
<p>Ch-3: Metals and Non-Metals Ch- 7: How do organisms reproduce? Ch-11: Electricity</p>	<p>Ch-1: Chemical reactions and equations Ch-9: Light-Reflection and Refraction Ch- 5: Life processes, Ch- 6: Control and coordination, Ch-2: Acids, Bases, and Salts, Ch- 7:How do organisms reproduce? Ch-10:The Human eye and the colourful world Ch- 8:Heredity, Ch-3:Metals and Non-Metals Ch-11: Electricity, Ch- 15:Our environment Ch-4:Carbon Compounds. Ch-12: Magnetic effects of electric current</p>

SUBJECT: MATHEMATICS

Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 80 Time: 3 Hours
<p>UNIT I: NUMBER SYSTEMS</p> <p>1. REAL NUMBER Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$</p> <p>UNIT II: ALGEBRA</p> <p>1.POLYNOMIALS Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.</p> <p>2.PAIR OF LINEAR EQUATIONS IN TWO VARIABLES Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.</p>	<p>UNIT I: NUMBER SYSTEMS</p> <p>1. REAL NUMBER Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$</p> <p>UNIT II: ALGEBRA</p> <p>1.POLYNOMIALS Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.</p> <p>2.PAIR OF LINEAR EQUATIONS IN TWO VARIABLES Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.</p> <p>UNIT III: COORDINATE GEOMETRY Coordinate Geometry Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).</p> <p>UNIT IV: GEOMETRY</p> <p>1.TRIANGLES Definitions, examples, counter examples of similar triangles. 1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. 2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 5. (Motivate) 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.</p> <p>UNIT V: TRIGONOMETRY</p> <p>1.INTRODUCTION TO TRIGONOMETRY</p>

	<p>Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios which are defined at 0° and 90°. Values of the trigonometric ratios of 30°, 45° and 60°. Relationships between the ratios.</p> <p>2. TRIGONOMETRIC IDENTITIES Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.</p> <p>UNIT VII: STATISTICS AND PROBABILITY 1. STATISTICS Mean, median and mode of grouped data (bimodal situation to be avoided).</p>
<p>Periodic Test-3 Full Marks: 20 Time: 45 Mins</p>	<p>Annual / Preboard Full Marks: 80 Time: 3 Hours</p>
<p>UNIT II: ALGEBRA</p> <p>3. QUADRATIC EQUATIONS</p> <p>Standard form of a quadratic equation $ax^2 + bx + c = 0$, ($a \neq 0$). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots.</p> <p>Situational problems based on quadratic equations related to day to day activities to be incorporated.</p> <p>4. ARITHMETIC PROGRESSIONS</p> <p>Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A.P. and their application in solving daily life problems.</p> <p>UNIT V: TRIGONOMETRY 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°, and 60°.</p>	<p>PT 1 + PT 3+ HALF YEARLY + UNIT IV: GEOMETRY</p> <p>2. CIRCLES Tangent to a circle at, point of contact 1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal.</p> <p>UNIT VI: MENSURATION</p> <p>1. AREAS RELATED TO CIRCLES</p> <p>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.</p> <p>2. SURFACE AREAS AND VOLUMES</p> <p>Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones.</p> <p>UNIT VII: STATISTICS AND PROBABILITY</p> <p>PROBABILITY Classical definition of probability. Simple problems on finding the probability of an event.</p>

SUBJECT: SOCIAL SCIENCE	
<p>Periodic Test-1 Full Marks: 20 Time: 45 Mins</p> <p style="text-align: center;">Geography</p> <p>CHAPTER 1- Resources and Development CHAPTER 2- Forest and Wildlife Resources</p> <p style="text-align: center;">Economics</p> <p>CHAPTER 1- Development CHAPTER 2- Sectors of Indian Economy</p> <p style="text-align: center;">History</p> <p>CHAPTER-1 The Rise of Nationalism in Europe</p> <p style="text-align: center;">Civics</p> <p>CHAPTER 1- Power sharing</p>	<p>Half Yearly Full Marks: 80 Time: 3 Hours</p> <p style="text-align: center;">Geography</p> <p>CHAPTER 3- Water Resources CHAPTER 4- Agriculture</p> <p style="text-align: center;">Economics</p> <p>CHAPTER 2- Sectors of Indian Economy CHAPTER 3- Money and Credit</p> <p style="text-align: center;">History</p> <p>CHAPTER 3- Nationalism in India CHAPTER 4- The Making of a Global world (up to 1.3)</p> <p style="text-align: center;">Civics</p> <p>CHAPTER 2- Federalism</p>

	CHAPTER 4- Gender, Religion and caste
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 80 Time: 3 Hours
<p>Geography</p> <p>CHAPTER 5- Minerals and Energy Resources</p> <p>Economics</p> <p>CHAPTER 4- Globalization and the Indian Economy</p> <p>History</p> <p>CHAPTER 5- Print culture and modern world</p> <p>Civics</p> <p>CHAPTER 6- Political Parties</p>	<p>Geography</p> <p>CHAPTER 1- Resources and Development</p> <p>CHAPTER 2- Forest and Wildlife Resources</p> <p>CHAPTER 3- Water Resources</p> <p>CHAPTER 4- Agriculture</p> <p>CHAPTER 5- Minerals and Energy Resources</p> <p>CHAPTER 6- Manufacturing Industries</p> <p>CHAPTER 7- Lifeline of National Economy(ONLY MAP)</p> <p>Economics</p> <p>CHAPTER 1- Development</p> <p>CHAPTER 2- Sectors of Indian Economy</p> <p>CHAPTER 3- Money and Credit</p> <p>CHAPTER 4- Globalization and the Indian Economy</p> <p>History</p> <p>CHAPTER-1 The Rise of Nationalism in Europe</p> <p>CHAPTER 2- Nationalism in India</p> <p>CHAPTER 3- The Making of a Global world(up to 1.3)</p> <p>CHAPTER 5- Print Culture and the Modern world</p> <p>Civics</p> <p>CHAPTER 1- Power sharing</p> <p>CHAPTER 2- Federalism</p> <p>CHAPTER 4- Gender, Religion and caste</p> <p>CHAPTER 6- Political Parties</p> <p>CHAPTER 7- Outcomes of Democracy</p>

SUBJECT: ARTIFICIAL INTELLIGENCE	
Periodic Test-1 Full Marks: 20 Time: 45 Mins	Half Yearly Full Marks: 50 Time: 2 Hours
Part A- Communication skills -II Part B- Introduction to Artificial Intelligence	Part A- Communication skills -II , Self management skills - II, ICT skills - II Part B- Introduction to Artificial Intelligence , AI project cycle PRACTICAL – INTRODUCTION TO PYTHON (ONLY FOR PRACTICAL ASSESSMENT) MARKS 30
Periodic Test-3 Full Marks: 20 Time: 45 Mins	Annual / Preboard Full Marks: 50 Time: 2 Hours
Part A- Entrepreneurial skills -II , Green skills Part B- Natural Language Processing, Evaluation	Part A- Communication skills -II , Self management skills - II, ICT skills - II , Entrepreneurial skills -II , Green Skills -II Part B- Introduction to Artificial Intelligence , AI project cycle, Natural Language Processing, Evaluation , Data Science, Computer Vision PRACTICAL – INTRODUCTION TO PYTHON, DATA SCIENCE, COMPUTER VISION (ONLY FOR PRACTICAL ASSESSMENT) MARKS 30