

HSC 1st Year Academic Program Prime Batch

[Online/Combo]

Class & Exam Routine [Part-02]

Date & Day	Live Class: 1	Live Class: 2	Live Exam	Online: From 8:00am to 11:55pm
	2:30 pm	6:45 pm		Offline: From 9:00am to 5:00pm
13 September 2025 Saturday Chapter-wise Exam-02	H.Math 1st Paper Chapter-03 [Part-01 Lecture HM-13 to 18]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.s			
14 September 2025 (Sunday)	C-13 Chemistry: Chapter-2	HM-05 H.Math: Chapter-1	Daily Live Exam B-08 MCQ (10×1=10); 10 min. Daily Live Exam HM-20 MCQ (10×1=10); 10 min.	
15 September 2025 (Monday)	HM-21 H.Math: Chapter-3	C-14 Chemistry: Chapter-2	Daily Live Exam C-13 MCQ (10×1=10); 10 min. Daily Live Exam HM-05 MCQ (10×1=10); 10 min.	
16 September 2025 (Tuesday)	P-11 Physics: Chapter-2	C-27 Chemistry: Chapter-3	Daily Live Exam HM-21 MCQ (10×1=10); 10 min. Daily Live Exam C-14 MCQ (10×1=10); 10 min.	
17 September 2025 (Wednesday)	Z-01 Zoology: Chapter-1	P-12 Physics: Chapter-2	Daily Live Exam P-11 MCQ (10×1=10); 10 min. Daily Live Exam C-27 MCQ (10×1=10); 10 min.	
18 September 2025 (Thursday)	Z-02 Zoology: Chapter-1	HM-22 H.Math: Chapter-3	Daily Live Exam Z-01 MCQ (10×1=10); 10 min. Daily Live Exam P-12 MCQ (10×1=10); 10 min.	
19 September 2025 (Friday)	Chemistry Problem Solving Class-01 (Evening- 6:30 PM)			
20 September 2025 Saturday Chapter-wise Exam-03	Botany Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
21 September 2025 (Sunday)	C-15 Chemistry: Chapter-2	HM-06 H.Math: Chapter-1	Daily Live Exam Z-02 MCQ (10×1=10); 10 min. Daily Live Exam HM-22 MCQ (10×1=10); 10 min.	
22 September 2025 (Monday)	HM-23 H.Math: Chapter-3	C-16 Chemistry: Chapter-2	Daily Live Exam C-15 MCQ (10×1=10); 10 min. Daily Live Exam HM-06 MCQ (10×1=10); 10 min.	
23 September 2025 (Tuesday)	P-13 Physics: Chapter-2	C-28 Chemistry: Chapter-3	Daily Live Exam HM-23 MCQ (10×1=10); 10 min. Daily Live Exam C-16 MCQ (10×1=10); 10 min.	
24 September 2025 (Wednesday)	Z-03 Zoology: Chapter-1	P-14 Physics: Chapter-2	Daily Live Exam P-13 MCQ (10×1=10); 10 min. Daily Live Exam C-28 MCQ (10×1=10); 10 min.	
25 September 2025 (Thursday)	Z-04 Zoology: Chapter-1	HM-24 H.Math: Chapter-3	Daily Live Exam Z-03 MCQ (10×1=10); 10 min. Daily Live Exam P-14 MCQ (10×1=10); 10 min.	
26 September 2025 (Friday)	Guideline Seminar-01			
27 September 2025 Saturday Chapter-wise Exam-04	Physics 1st Paper Chapter-02 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
28 September 2025 (Sunday)	C-17 Chemistry: Chapter-2	HM-07 H.Math: Chapter-1	Daily Live Exam Z-04 MCQ (10×1=10); 10 min. Daily Live Exam HM-24 MCQ (10×1=10); 10 min.	
29 September 2025 (Monday)	HM-25 H.Math: Chapter-3	C-18 Chemistry: Chapter-2	Daily Live Exam C-17 MCQ (10×1=10); 10 min. Daily Live Exam HM-07 MCQ (10×1=10); 10 min.	
Online classes and exams will be closed from September 30 to October 04 on the occasion of Sharadiya Durga Puja.				
05 October 2025 (Sunday)	C-19 Chemistry: Chapter-2	HM-08 H.Math: Chapter-1	Daily Live Exam HM-25 MCQ (10×1=10); 10 min. Daily Live Exam C-18 MCQ (10×1=10); 10 min.	
06 October 2025 (Monday)	HM-26 H.Math: Chapter-3	C-20 Chemistry: Chapter-2	Daily Live Exam C-19 MCQ (10×1=10); 10 min. Daily Live Exam HM-08 MCQ (10×1=10); 10 min.	
07 October 2025 (Tuesday)	P-01 Physics: Chapter-1	C-29 Chemistry: Chapter-3	Daily Live Exam HM-26 MCQ (10×1=10); 10 min. Daily Live Exam C-20 MCQ (10×1=10); 10 min.	
08 October 2025 (Wednesday)	Z-05 Zoology: Chapter-1	P-02 Physics: Chapter-1	Daily Live Exam P-01 MCQ (10×1=10); 10 min. Daily Live Exam C-29 MCQ (10×1=10); 10 min.	
09 October 2025 (Thursday)	Z-06 Zoology: Chapter-1	HM-45 H.Math: Chapter-7	Daily Live Exam Z-05 MCQ (10×1=10); 10 min. Daily Live Exam P-02 MCQ (10×1=10); 10 min.	
10 October 2025 (Friday) Chapter-wise Exam-05	H.Math Problem Solving Class-01 (Evening- 6:30 PM)			
	H.Math 1st Paper Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
11 October 2025 Saturday Chapter-wise Exam-06	H.Math 1st Paper Chapter-03 [Part-02 Lecture HM-19 to 26]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.			
12 October 2025 (Sunday)	C-21 Chemistry: Chapter-2	HM-41 H.Math: Chapter-6	Daily Live Exam Z-06 MCQ (10×1=10); 10 min. Daily Live Exam HM-45 MCQ (10×1=10); 10 min.	
13 October 2025 (Monday)	HM-46 H.Math: Chapter-7	C-22 Chemistry: Chapter-2	Daily Live Exam C-21 MCQ (10×1=10); 10 min. Daily Live Exam HM-41 MCQ (10×1=10); 10 min.	
14 October 2025 (Tuesday)	P-15 Physics: Chapter-3	C-30 রসায়ন: অধ্যায়-৩	Daily Live Exam HM-46 MCQ (10×1=10); 10 min. Daily Live Exam C-22 MCQ (10×1=10); 10 min.	
15 October 2025 (Wednesday)	B-09 Botany: Chapter-2	P-16 Physics: Chapter-3	Daily Live Exam P-15 MCQ (10×1=10); 10 min. Daily Live Exam C-30 MCQ (10×1=10); 10 min.	
16 October 2025 (Thursday)	B-10 Botany: Chapter-2	HM-47 H.Math: Chapter-7	Daily Live Exam B-09 MCQ (10×1=10); 10 min.	

			Daily Live Exam P-16 MCQ (10×1=10); 10 min.
17 October 2025 (Friday) Chapter-wise Exam-07	Physics Problem Solving Class-01 (Evening- 6:30 PM)		
	Physics 1st Paper Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
18 October 2025 Saturday Chapter-wise Exam-08	Zoology Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
19 October 2025 (Sunday)	C-01 Chemistry: Chapter-1	HM-42 H.Math: Chapter-6	Daily Live Exam B-10 MCQ (10×1=10); 10 min. Daily Live Exam HM-47 MCQ (10×1=10); 10 min.
20 October 2025 (Monday)	HM-48 H.Math: Chapter-7	C-02 Chemistry: Chapter-1	Daily Live Exam C-01 MCQ (10×1=10); 10 min. Daily Live Exam HM-42 MCQ (10×1=10); 10 min.
21 October 2025 (Tuesday)	P-17 Physics: Chapter-3	C-31 Chemistry: Chapter-3	Daily Live Exam HM-48 MCQ (10×1=10); 10 min. Daily Live Exam C-02 MCQ (10×1=10); 10 min.
22 October 2025 (Wednesday)	B-11 Botany: Chapter-2	P-18 Physics: Chapter-3	Daily Live Exam P-17 MCQ (10×1=10); 10 min. Daily Live Exam C-31 MCQ (10×1=10); 10 min.
23 October 2025 (Thursday)	B-12 Botany: Chapter-2	HM-49 H.Math: Chapter-7	Daily Live Exam B-11 MCQ (10×1=10); 10 min. Daily Live Exam P-18 MCQ (10×1=10); 10 min.
24 October 2025 (Friday) Chapter-wise Exam-09	Biology Problem Solving Class-01 (Evening- 6:30 PM)		
	Chemistry 1st Paper Chapter-02 [Part-02 Lecture C-13 to 22]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
25 October 2025 Saturday Chapter-wise Exam-10	Chemistry 1st Paper Chapter-03 [Part-01 Lecture C-23 to 30]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
26 October 2025 (Sunday)	C-03 Chemistry: Chapter-1	HM-43 H.Math: Chapter-6	Daily Live Exam B-12 MCQ (10×1=10); 10 min. Daily Live Exam HM-49 MCQ (10×1=10); 10 min.
27 October 2025 (Monday)	HM-50 H.Math: Chapter-7	C-04 Chemistry: Chapter-1	Daily Live Exam C-03 MCQ (10×1=10); 10 min. Daily Live Exam HM-43 MCQ (10×1=10); 10 min.
28 October 2025 (Tuesday)	P-19 Physics: Chapter-3	C-32 Chemistry: Chapter-3	Daily Live Exam HM-50 MCQ (10×1=10); 10 min. Daily Live Exam C-04 MCQ (10×1=10); 10 min.
29 October 2025 (Wednesday)	Z-15 Zoology: Chapter-3	P-20 Physics: Chapter-3	Daily Live Exam P-19 MCQ (10×1=10); 10 min. Daily Live Exam C-32 MCQ (10×1=10); 10 min.
30 October 2025 (Thursday)	Z-16 Zoology: Chapter-3	HM-51 H.Math: Chapter-7	Daily Live Exam Z-15 MCQ (10×1=10); 10 min. Daily Live Exam P-20 MCQ (10×1=10); 10 min.
31 October 2025 (Friday) Chapter-wise Exam-11	Guideline Seminar-02		
	Botany Chapter-02 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
01 November 2025 Saturday Chapter-wise Exam-12	Chemistry 1st Paper Chapter-01 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
02 November 2025 (Sunday)	C-37 Chemistry: Chapter-4	HM-44 H.Math: Chapter-6	Daily Live Exam Z-16 MCQ (10×1=10); 10 min. Daily Live Exam HM-51 MCQ (10×1=10); 10 min.
03 November 2025 (Monday)	HM-52 H.Math: Chapter-7	C-38 Chemistry: Chapter-4	Daily Live Exam C-37 MCQ (10×1=10); 10 min. Daily Live Exam HM-44 MCQ (10×1=10); 10 min.
04 November 2025 (Tuesday)	P-21 Physics: Chapter-4	C-33 Chemistry: Chapter-3	Daily Live Exam HM-52 MCQ (10×1=10); 10 min. Daily Live Exam C-38 MCQ (10×1=10); 10 min.
05 November 2025 (Wednesday)	Z-17 প্রাণিবিজ্ঞান: অধ্যায়-৩	P-22 Physics: Chapter-4	Daily Live Exam P-21 MCQ (10×1=10); 10 min. Daily Live Exam C-33 MCQ (10×1=10); 10 min.
06 November 2025 (Thursday)	Z-18 Zoology: Chapter-3	HM-53 H.Math: Chapter-7	Daily Live Exam Z-17 MCQ (10×1=10); 10 min. Daily Live Exam P-22 MCQ (10×1=10); 10 min.
07 November 2025 (Friday)	Chemistry Problem Solving Class-02 (Evening- 6:30 PM)		
08 November 2025 Saturday Chapter-wise Exam-13	Physics Chapter-03 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
09 November 2025 (Sunday)	C-39 Chemistry: Chapter-4	HM-57 H.Math: Chapter-8	Daily Live Exam Z-18 MCQ (10×1=10); 10 min. Daily Live Exam HM-53 MCQ (10×1=10); 10 min.
10 November 2025 (Monday)	HM-54 H.Math: Chapter-7	C-40 Chemistry: Chapter-4	Daily Live Exam C-39 MCQ (10×1=10); 10 min. Daily Live Exam HM-57 MCQ (10×1=10); 10 min.
11 November 2025 (Tuesday)	P-23 Physics: Chapter-4	C-34 Chemistry: Chapter-3	Daily Live Exam HM-54 MCQ (10×1=10); 10 min. Daily Live Exam C-40 MCQ (10×1=10); 10 min.
12 November 2025 (Wednesday)	B-13 Botany: Chapter-3	P-24 Physics: Chapter-4	Daily Live Exam P-23 MCQ (10×1=10); 10 min. Daily Live Exam C-34 MCQ (10×1=10); 10 min.
13 November 2025 (Thursday)	B-14 Botany: Chapter-3	HM-55 H.Math: Chapter-7	Daily Live Exam B-13 MCQ (10×1=10); 10 min. Daily Live Exam P-24 MCQ (10×1=10); 10 min.
14 November 2025 (Friday)	H.Math Problem Solving Class-02 (Evening- 6:30 PM)		
15 November 2025 Saturday Chapter-wise Exam-14	Zoology 2nd Paper Chapter-03 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
The next class and exam routine (Part-03) will be published...			
The routine can change or be modified in case of special necessities			

Physics 1st paper Reference Book: मातालाल TEXT

Chapter	Lecture	Lecture-based discussion
Chapter-1 Physical World and Measurement	P-01	Scope of physics, Physics and other branches of science, Evolution of physics, Concepts, formulas, principles, postulates, hypotheses and theories in Physics, Measurement, Units, dimensions, dimensional equations, principle of symmetry, conversion of physical quantities from one unitary system to another, limitations of dimensional equations, errors, mechanical errors, observational errors, random or scattered errors, repetitive errors, Least Count errors, calculation of errors, determination of accurate values of measured quantities, significant figures.
	P-02	Error calculation (proof, percentage, relative), mathematical problems related to errors, Some measuring instruments, Vernier scale, Slide calipers, Screw-gauge, Spherometer, Weighing machine, Mathematical problems
Chapter-2 Vector	P-11	Dot product of vectors, CQ & Admission standard problems
	P-12	Cross product of vectors, CQ & Admission standard problems
	P-13	Calculus, differentiation, integration, functions with multiple variables, and partial differentiation.
	P-14	Scalar and vector fields, gradient, divergence, curl.
Chapter-3 Dynamics	P-15	Frame of reference, Rest and motion, distance and displacement, average velocity and average speed, instantaneous velocity and instantaneous speed, acceleration, equations of motion for uniform acceleration in one dimension.
	P-16	CQ & Admission Standard Problems on Equation of Motion, Describing Motion with the help of graphs, Concepts of slope and area in describing motion
	P-17	Motion of free-falling bodies, vertical motion, equations for thrown body, Galileo's laws derived from the equations of motion.
	P-18	CQ & Admission Standard Problems related to Vertical Motion, Motion of objects along curved paths, vector representation of equations of motion for uniformly accelerated motion, projectile motion, equation of projectile trajectory, equations related to projectile.
	P-19	CQ & Admission Standard Problems related to projectile motion.
	P-20	Circular motion, Various quantities related to circular motion, centripetal acceleration, centripetal acceleration formulae, net acceleration, angular equations of motion.
Chapter-4 Newtonian Mechanics	P-21	Basic concepts of Force, Newtonian mechanics, Newton's first law of motion, inertia of motion and rest, definition and characteristics of force, different types of forces, fundamental forces, gravitational force, electromagnetic force, strong nuclear force, weak nuclear force, Force balance
	P-22	Momentum, Newton's second law of motion, equilibrium of forces. CQ & Admission Standard Problems
	P-23	Impulsive force and impulsive of force, Newton's third law of motion, system of forces, external and internal forces, types of forces, gravitational force, normal force, weight of an object, tension.
	P-24	Friction, angle of friction, limiting angle.

Chemistry 1st Reference Book: मातालाल TEXT

Chapter	Lecture	Lecture-based discussion
Chapter-2 Qualitative Chemistry Introduction	C-13	spectrum of H atom + Rydberg Discussions, Related Math.
	C-14	Lines of spectrum, Uses of UV in fake money and passport identification, Uses of IR ray in medical science, Use of MRI in diagnosis.
	C-15	Solubility and Solubility Product- Mixture and Solution, Solubility, Factors influencing solubility.
	C-16	solubility products, ionic product, Related Math.
	C-17	Principle of Solubility Product, Application of the principle of Solubility Product Common ion and its effect to change solubility
	C-18	Application of common ion, effect of pH on solubility, Related Math.
	C-19	Qualitative Analysis (Ion identification)- Flame test, wet test (+ve and -ve ion identification), detecting presence of Carbon in organic compounds, detection of Hydrogen in organic compounds, Detection of N, S, X (F, Cl, Br, I) in organic compounds.
	C-20	Applications of Qualitative Chemistry (Physical Analysis)- crystallization, distillation and partial distillation, steam distillation, sublimation, low pressure distillation.
	C-21	Nernst's distribution formula, solvent extraction.
	C-22	chromatography, column chromatography, thin layer chromatography, paper chromatography, importance of qualitative analysis.
Chapter-3 Periodic Properties and Bonding in Elements	C-27	Chemical properties of block elements (Chemical properties of d block elements, Chemical properties of f block elements).
	C-28	Transitional Element, properties of transitional element.
	C-29	Periodic properties- atomic size, Ionization energy, Acidity/Basicity of oxides.
	C-30	Electron affinity, Electronegativity, Melting point/Boiling point.
	C-31	Chemical Bonds- Ionic bond, Metallic bond, Covalent bond, Classification of covalent bond, lewis dot structure.
	C-32	Orbital overlapping. Hybridization, Classification of Hybrid orbitals.
	C-33	Determination of Hybridization state of central atom, Relation between Shapes of covalent compounds and hybrid orbitals, Effect of lone pair electrons on Molecular shapes.
Chapter-1 Safe Use of Laboratory	C-34	Ligand, Coordinate covalent bond.
	C-01	Safe use of Laboratory- Aprons, masks, safety glasses, gloves, lab rules/golden rules, Solvent measuring device and its uses- Chemical analysis, test tubes, beakers, burettes, pipettes, volumetric flasks, conical flasks, wash bottles, measuring cylinders, techniques for cleaning glassware, Concentration- Molarity, Molality, Dilution, Standard Substances (Primary & Secondary) + Math
	C-02	Titration- Method, Indicator, End Point & Equivalent Point, Formulation of Titration Equations + Math.
	C-03	Solute measuring instruments - chemical instruments, Paul-Bunge balances, method of weighing in balances, digital balances, Heating Techniques with Laboratory Apparatus- Bunsen Burner & Flame, Heating Techniques in Round Bottom Flasks, Conical flask heating technique, Water bath heating technique, Porcelain bowl heating technique, Test tube heating technique, Beaker heating technique. Storage, Use, Precautions and Disposal of Chemicals- Storage of Chemicals, Waste Management, Use and Precautions of Chemicals.

	C-04	Effects of Chemicals on Environment and Moderate Use - Environmental Pollution by Airborne Substances, Environmental Pollution by Laboratory Solid and Liquid Substances, Effects of chemicals on Environment and Health, moderate use of chemicals, analytical methods (macro, semi-micro, micro), laboratory safety equipment and rules of use - fume hood, blanket, laboratory kit, eyecup, sink, use of fire extinguisher, first aid box, first aid and Use of first aids.
Chapter-4 Chemical Changes	C-37	Chemical Reaction and Rate of Reaction- Green Chemistry, Reaction Direction:(Irreversible Reaction and Reversible reaction), Rate of reaction.
	C-38	Rate constant
	C-39	Order of reaction, molecularity of reaction
	C-40	Effect of temperature on rate of reaction (Arrhenius equation), Activation energy, Collision theory.

H.Math 1st Paper Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-1 Matrix & Determinant	HM-05	Exercise - 1.2; Minors and co-factors of determinant, singular and non-singular matrix and problems related to singular and non-singular matrix.
	HM-06	Exercise - 1.2; Inverse matrix, problems related to inverse matrix, properties of determinant.
	HM-07	Exercise - 1.2; Problems related to proof of identity with determinants, proof without expansion.
	HM-08	Exercise - 1.2; Solving equations with determinants, Solving systems of equations - Cramer's rule, solving systems of equations - Inverse matrix method, Problems related to solving systems of equations, Special formula related to the magnitude of determinants.
Chapter-3 Straight Line	HM-21	Exercise - 3.5; locus related. Exercise - 3.6; Related to condition for three straight lines to be congruent, related to two parallel straight lines, related to parallel straight lines of a straight line.
	HM-22	Exercise - 3.6; Related to two perpendicular straight lines, related to equation of a straight line to the intersection of two straight lines.
	HM-23	Exercise - 3.6; Internal angle between two straight lines, Different types of centers.
	HM-24	Exercise - 3.7; Perpendicular distance of a given straight line from a given point, Position of a point with respect to a straight line
	HM-25	Exercise - 3.7; Bisection of a line segment joining two points, perpendicular distance between two parallel straight lines,
	HM-26	Exercise - 3.7; Equation of the bisector of an angle between two non-parallel straight lines, Determining the equation of the bisector of an angle under different conditions, image related
Chapter-6 Trigonometric Ratios	HM-41	Exercise - 6; Types of trigonometry, Quadrilateral, Two-dimensional angle, Measurement of two-dimensional angle, Radian angle is a constant angle, Relationship between degree and radian, Three-dimensional angle and its measurement, Problems related to mutual conversion of sexagesimal, circular and centigrade systems of angles, Determination of the length of arc of a circle, Determination of the area of a circle.
	HM-42	Exercise - 6; Angle between the hour and minute hands of a clock, Interior angle of a polygon, Similar triangle, Ratio of trigonometric angles, Fundamental theorem, Trigonometric ratio of axial angle, Relationship between ratios of trigonometric angles.
	HM-43	Exercise - 6; Problems related to mutual conversion of trigonometric ratios and determination of value, Problems related to proof, Problems related to trigonometric identities, Circular function and its domain-range.
	HM-44	Exercise - 6; Graphs of trigonometric functions, graph related problems, period of trigonometric functions, various changes in the graph of trigonometric functions, determination of fundamental period.
Chapter-7 Trigonometric Ratios of Associated and Compound Angles	HM-45	Exercise - 7.1; Trigonometric ratio of θ or positive acute angle: $(-\theta)$ or negative angle: $(90^\circ - \theta)$, i.e. trigonometric ratio of angle θ : Co-function: Trigonometric ratio of angle $(90^\circ + \theta)$, $(180^\circ - \theta)$, $(180^\circ + \theta)$, $(270^\circ - \theta)$, $(270^\circ + \theta)$, Trigonometric quantities
	HM-46	Exercise - 7.1; problems involving associated angles, Problems related to sum of squares of trigonometric ratios, Multiplication and problems of Tangent or Cotangent ratios, Determination of values and problems using various trigonometric formulas.
	HM-47	Exercise - 7.2; Trigonometric ratio of compound angles, A and B are positive acute angles where $A > B$, Problems related to trigonometric ratios.
	HM-48	Exercise - 7.2; $A \pm B$ related formulae and problems, problems related to trigonometric expansions, problems related to $\frac{\cos A \pm \sin A}{\cos A \mp \sin A}$ formula, problems related to $A + B = \text{constant}$, Finding the maximum/minimum value of a trigonometric expression.
	HM-49	Exercise - 7.3; Formulae and problems related to $\sin(A + B) \pm \sin(A - B)$ or $\cos(A + B) \pm \cos(A - B)$, Problems related to $\tan A \pm \tan B$, problems related to $\sin A + \cos A$.
	HM-50	Exercise - 7.4; Trigonometric ratios of multiple angles, formulae and problems for trigonometric ratios of $2A$ angles, series related (arithmetic and geometric series) and problems.
	HM-51	Exercise - 7.4; Problems related to periodic square roots, Trigonometric ratios of $3A$ angles and problems, Trigonometric ratios of specific angles.
	HM-52	Exercise - 7.5; Formulae and problems related to proof, Problems related to determining the values of various trigonometric ratios from the values of $\cos x + \cos y$ and $\sin x + \sin y$.
	HM-53	Exercise - 7.6; Problems related to tangent and cotangent, problems related to sine and cosine.
	HM-54	Exercise - 7.7; Sine law of a triangle, law of tangents, problems related to law of tangent.
	HM-55	Exercise - 7.7; Cosine law, related to cosine law of a triangle, perpendicular projection, perpendicular projection related.
Chapter-8 Functions and Graph of Functions	HM-57	Exercise - 8; Sets and their variations, applications, set mapping and Cartesian properties. finitary relations, functions and their identification, clear concept of functions with the help of mapping, domain, range and codomain, role of variables and constants in functions, functions and graphs of functions, Piecewise Function.

Botany Reference Book: मातालाल TEXT		
Chapter	Lecture	Lecture-based discussion
Chapter-2 Cell Division	B-09	Amitosis, Cell Cycle: Controllers of Cell Cycle, Interphase: G_1 Phase, S Phase, G_2 Phase.
	B-10	M-phase (Prophase, Prometaphase, Metaphase, Anaphase, Telophase) <i>Uncontrolled Mitosis</i> , Cell Death
	B-11	Importance of Mitosis, Meiosis: Meiosis 1: Prophase-1, Metaphase-1, Anaphase-1, Telophase-1, Interkinesis-1
	B-12	Meiosis-2: Prophase-2, Metaphase-2, Anaphase-2, Telophase-2, Cytokinesis-2, Characteristics of Meiosis, Importance of Meiosis, Crossing Over.
Chapter-3 Cell Chemistry	B-13	Carbohydrate: Characteristics of Carbohydrate, Types of Carbohydrate: Monosaccharide (Triose, Tetrose, Pentose), Disaccharide
	B-14	Monosaccharide (Hexose, Heptose), Disaccharide

Chapter	Lecture	Lecture-based discussion
Chapter-1 Animal Diversity and Classification	Z-01	Animal Diversity: types of animal diversity, classification of animal kingdom, Basis of animal classification, Principles of animal classification
	Z-02	Nomenclature of animals, principles of nomenclature of animals, classification of animal kingdom, major phyla of animal kingdom: Non-chordate
	Z-03	Porifera, Cnidaria, Platyhelminthes, Nematoda.
	Z-04	Mollusca, Annelida, Arthropoda, Echinodermata.
	Z-05	Chordata: characteristics of various sub-phylum and classes of chordata, classification of vertebrates (cyclostomata)
	Z-06	Classification of vertebrates (Gnathostomata)
Chapter-3 Human Physiology: Digestion and Absorption	Z-15	Digestion: Types of digestion, Digestive system, Oral Cavity, Digestion of Food in mouth, Dental Formula, Pharynx, Esophagus
	Z-16	Stomach, Digestion of Food in stomach, Small Intestine, Digestion of Food in small intestine, Large intestine
	Z-17	Digestive glands: salivary glands, liver, pancreas, gastric glands, intestinal glands, Role of nervous system and hormones in digestion
	Z-18	Absorption of digested food: components of food and their absorption, Fate of absorbed nutrients, Obesity



উদ্ভাস

একাডেমিক এন্ড এডমিশন কেয়ার



দেশব্যাপী ৬৪ জেলায় ১১১ টি শাখায়
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