

HSC 1st Year Academic Program

Pioneer Batch

Batch Time:

English Version - 3:00 PM

**Class & Exam Routine
(Part-01)**

Exam time:

9.00 am to 11.00 pm.

Date and time	Live Class (Online Smart Board)	Live Exam (Online)
24 March 2024 (Sunday)	Live class (C-05+06) Chemistry: Chapter- 02	Basic Introductory Exam
All classes and examinations will be closed on 26th March 2024 (Tuesday) due to National Independence Day		
28 March 2024 (Thursday)	Live class (P-03+04) Physics: Chapter- 02	Board Standard Daily Live Exam (C-05+06) MCQ (10×1=10); 10 min
29 March 2024 (Friday)	Live class (Z-01+02) Zoology: Chapter- 01	Board Standard Daily Live Exam (P-03+04) MCQ (10×1=10); 10 min
31 March 2024 (Sunday)	Live class (C-07+08) Chemistry: Chapter- 02	Board Standard Daily Live Exam (Z-01+02) MCQ (10×1=10); 10 min
2 April 2024 (Tuesday)	Live class (HM-11+12) H.Math: Chapter- 03	Board Standard Daily Live Exam (C-07+08) MCQ (10×1=10); 10 min
4 April 2024 (Thursday)	Live class (P-05+06) Physics: Chapter- 02	Board Standard Daily Live Exam (HM-11+12) MCQ (10×1=10); 10 min
5 April 2024 (Friday)	Live class (Z-03+04) Zoology: Chapter- 01	Board Standard Daily Live Exam (P-05+06) MCQ (10×1=10); 10 min
Classes and examinations will be closed from 6th April to 20th April 2024 on the occasion of Eid-ul-Fitr		
21 April 2024 (Sunday)	Live class (P-07+08) Physics: Chapter- 02	Board Standard Daily Live Exam (Z-03+04) MCQ (10×1=10); 10 min
23 April 2024 (Tuesday)	Live class (HM-13+14) H.Math: Chapter- 03	Board Standard Daily Live Exam (P-07+08) MCQ (10×1=10); 10 min
25 April 2024 (Thursday)	Live class (C-09+10) Chemistry: Chapter- 02	Board Standard Daily Live Exam (HM-13+14) MCQ (10×1=10); 10 min
26 April 2024 (Friday)	Live class (HM-15+16) H.Math: Chapter- 03	Board Standard Daily Live Exam (C-09+10) MCQ (10×1=10); 10 min
28 April 2024 (Sunday)	Live class (C-11+12) Chemistry: Chapter- 02	Board Standard Daily Live Exam (HM-15+16) MCQ (10×1=10); 10 min
30 April 2024 (Tuesday)	Live class (Z-05+06) Zoology: Chapter- 01	Board Standard Daily Live Exam (C-11+12) MCQ (10×1=10); 10 min
2 May 2024 (Thursday)	Live class (P-09+10) Physics: Chapter- 02	Board Standard Daily Live Exam (Z-05+06) MCQ (10×1=10); 10 min
3 May 2024 (Friday)	Live class (B-01+02) Botany: Chapter- 01	Board Standard Daily Live Exam (P-09+10) MCQ (10×1=10); 10 min
5 May 2024 (Sunday)	Live class (C-13+14) Chemistry: Chapter- 02	Board Standard Daily Live Exam (B-01+02) MCQ (10×1=10); 10 min
7 May 2024 (Tuesday)	Live class (HM-17+18) H.Math: Chapter- 03	Board Standard Daily Live Exam (C-13+14) MCQ (10×1=10); 10 min
08 May 2024 (Wednesday)	Chapter-wise Exam [Zoology Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
9 May 2024 (Thursday)	Live class (P-11+12) Physics: Chapter- 02	Board Standard Daily Live Exam (HM-17+18) MCQ (10×1=10); 10 min
10 May 2024 (Friday)	Live class (B-03+04) Botany: Chapter- 01	Board Standard Daily Live Exam (P-11+12) MCQ (10×1=10); 10 min
11 May 2024 (Saturday)	Live class (C-15+16) Chemistry: Chapter- 02	Board Standard Daily Live Exam (B-03+04) MCQ (10×1=10); 10 min
14 May 2024 (Tuesday)	Live class (HM-19+20) H.Math: Chapter- 03	Board Standard Daily Live Exam (C-15+16) MCQ (10×1=10); 10 min
16 May 2024 (Thursday)	Live class (P-13+14) Physics: Chapter- 02	Board Standard Daily Live Exam (HM-19+20) MCQ (10×1=10); 10 min
17 May 2024 (Friday)	Live class (B-05+06) Botany: Chapter- 01	Board Standard Daily Live Exam (P-13+14) MCQ (10×1=10); 10 min
19 May 2024 (Sunday)	Live class (C-17+18) Chemistry: Chapter- 02	Board Standard Daily Live Exam (B-05+06) MCQ (10×1=10); 10 min
21 May 2024 (Tuesday)	Live class (HM-21+22) H.Math: Chapter- 03	Board Standard Daily Live Exam (C-17+18) MCQ (10×1=10); 10 min
22 May 2024 (Wednesday)	Chapter-wise Exam [Physics Chapter-02] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
23 May 2024 (Thursday)	Live class (HM-23+24) H.Math: Chapter- 03	Board Standard Daily Live Exam (HM-21+22) MCQ (10×1=10); 10 min
24 May 2024 (Friday)	Live class (B-07+08) Botany: Chapter- 01	Board Standard Daily Live Exam (HM-23+24) MCQ (10×1=10); 10 min
25 May 2024 (Saturday)	Chapter-wise Exam [H.Math Chapter-03] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	

The next routine will be published...

HSC 1st Year Academic Program Pioneer Batch Syllabus-2024 (Online)

Physics 1st paper (Reference Book: **UDVASH Parallel Text)**

Chapter	Lecture	Syllabus
Chapter-2 Vector	P-03	Quantity, Scalar quantity and Vector quantity, Expression of Vector Quantity, Different types of Vectors, Addition of Vectors: Resultant.
	P-04	Law of Parallelogram, Determination of the Resultant of Two Vectors, Determination of the Direction of Resultant, Some Special Cases of the Law of Parallelogram.
	P-05	Some Characteristics of Vector Addition, Commutative Law, Associative Law, Distributive Law, Resolution of Vector, Determination of the Resultant of More than Two Vectors.
	P-06	Some Uses of Vector Resolution, Towing a boat, Lawn Roller, Concept of River and Boat.
	P-07	River, and Boat related.
	P-08	Subtraction of Vectors, Relative Velocity.
	P-09	Expression of Relative Velocity, Expression of Vectors in the Cartesian Coordinate System.
	P-10	Addition and Subtraction of Vectors Resolved into Components, Determination of Position Vector, Vector in Three-Dimensional Coordinate System.
	P-11	Multiplication of Vector, Multiplication of Vector Quantity with Scalar Quantity.
	P-12	Dot Multiplication of Vectors, Cross Multiplication of Vectors.
	P-13	Calculus, Differentiation, Integration, Functions with Multiple Variables and Partial Differentiation.
P-14	Scalar and Vector Field, Gradient, Divergence, Curl.	

Chemistry 1st paper (Reference Book: **UDVASH Parallel Text)**

Chapter	Lecture	Syllabus
Chapter-2 Qualitative Chemistry Introduction	C-05	Fundamental particles of atoms, introduction, and atomic models- electron, proton and neutrons discussion, atomic mass unit, atomic expression, isotope, isotone, isobar, isoelectronic, isomer.
	C-06	Radioactive isotope and nuclear reaction (Transmutation, fission and fusion), Rutherford's atomic model discussion.
	C-07	Bohr's atomic model discussion, Application of atomic models and Quantum Mechanics-Derivation for v , r , n , E from Bohr's model, Related Math.
	C-08	De Broglie's equation, Heisenberg's uncertainty principle, Schrodinger's wave equation, Related Math.
	C-09	Quantum Number- Principal Quantum number, Subsidiary Quantum Number, Magnetic Quantum Number, Spin Quantum Number
	C-10	Significance of Quantum Number, Orbit and Orbital Discussion, Quantum Subshell shapes and discussion, Calculation of total orbital and electron number.
	C-11	Electronic Configuration- Aufbau Principle, Hund's Rule, Paul's Exclusion Principle, e^- configuration of compounds and ions, stability of electronic configuration.
	C-12	Electromagnetic spectrum- Discussion, quantities related to radiation, regions of electromagnetic ray, classification of spectrum, identification of compounds using spectrum.
	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 product, 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.

H.Math 1st Paper (Reference Book: **UDVASH Parallel Text)**

Chapter	Lecture	Syllabus
Chapter-3 Straight line	HM-11	Exercise – 3.1; Coordinate system and distance between two points, Cartesian coordinate system, Polar coordinate system, transformation of coordinate systems related.
	HM-12	Exercise – 3.1; Distance between two points, Problems relating to the distance between two points.
	HM-13	Exercise – 3.2; Bisector formula, with respect to the coordinates of the internal/external bisector point.
	HM-14	Exercise – 3.2; Parallelogram/Square/Triangle/Circle related, Exercise – 3.3; Area of a polygon, finding area of a triangle by coordinates of vertices of a triangle.
	HM-15	Exercise – 3.3; Displacement parallel to axis, related to finding area, condition of three points being parallel, related to determining the ratio of the bisector of one line by another line.
	HM-16	Exercise – 3.4; Locus, related to determining the equation of locus.
	HM-17	Exercise – 3.5; Slope and equation of a straight line, Problems on Slope and equation of a straight line.
	HM-18	Exercise – 3.5; Relation in terms of two equations pointing to the same straight line, conversion from the general equation of a straight line to an equation of different shapes, intersection of two straight lines.
	HM-19	Exercise – 3.5; Area related, Locus, Exercise – 3.6; The condition that three straight lines are concentric, two parallel straight lines related, Regarding straight lines parallel to a straight line.

	HM-20	Exercise – 3.6; Regarding two straight lines perpendicular to each other, equation of a straight line through the point of intersection of two straight lines.
	HM-21	Exercise – 3.6; Angles included by two straight lines, at different centers.
	HM-22	Exercise – 3.7; Perpendicular distance from a given point to a given straight line, position of the point with respect to the straight line.
	HM-23	Exercise – 3.7; segmentation of the segment joining two points by a line, The perpendicular distance between two parallel straight lines, the equation of the bisector of the angle between two non-parallel straight lines.
	HM-24	Exercise – 3.7; Find the equation of the isosceles of the angle under various conditions, Regarding image.

Botany (Reference Book: **UDVASH Parallel Text)**

Chapter	Lecture	Syllabus
Chapter-1 Cell and its Structure	B-01	Cells, endosymbiosis, cell characteristics, cytology, cell theory, cell types, plant cell, cell wall.
	B-02	Protoplast, cell membrane, cytoplasm and organelles, ribosomes.
	B-03	Endoplasmic reticulum, Golgi bodies, lysosomes, mitochondria.
	B-04	Plastid, centriole, cytoskeleton, peroxisome, glyoxysome, vacuole.
	B-05	Nucleus, Cell inclusions, Chromosome.
	B-06	Hereditary material, DNA, RNA.
	B-07	DNA replication, Transcription, Reverse Transcription.
	B-08	Translation, Central Dogma of Biology, Gene, Genetic Code.

Zoology (Reference Book: **UDVASH Parallel Text)**

Chapter	Lecture	Syllabus
Chapter-1 Animal diversity and Classification	Z-01	Animal diversity: Types, Animal classification: Basis and principles of Animal classification.
	Z-02	Nomenclature of Animals, codes of Nomenclature of Animals, Major phylums of animal kingdom: Non-chordates.
	Z-03	Poriphera, Cnidaria, Platyhemintes.
	Z-04	Nematoda, Mollusca, Annelida.
	Z-05	Arthropoda, Echinodermata.
	Z-06	Chordata: Characteristics of the various subphylums and classes of the order Chordata, classification of vertebrata.

For any information regarding the online program contact the following numbers

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Malibagh-01713-236702, **Motijheel**-01713-236908, **Basabo**-01713-236722, **Banshri**-01713-236723, **Laxmibazar**-01713-236720, **Jatrabari**-01713-236719
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