HSC 1st Year Academic Program Pioneer Batch

Batch Time: English Version - 3:00	Class & Exam Ro (Part-01)	utine 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 class	ses and examinations will be closed on 26 th March 2024	I (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
c	lasses and examinations will be closed from 6 th April to 20	th 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-1 <mark>3+1</mark> 4) 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-1 <mark>5+16)</mark> 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-wice Evam [4 Math Chapter-02] (CO 2v10-20)	Time: Fomia & (Pro-Admission MCO 10x1-10); Time: 10mia

The next routine will be published....

Physics 1st paper (Reference Book: UDV(IS) Parallel Text)			
Chapter	Lecture	Syllabus	
	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.	
Chapter-2	P-07	River, and Boat related.	
Vector	P-08	Subtraction of Vectors, Relative Velocity.	
	P-09	Expression of Relative Velocity, Expression of Vectors in <mark>the C</mark> artesian 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 Vecto <mark>r Quantity</mark> with Scalar Quantity.	
	P-12	Dot Multiplication of Vectors, Cross Multiplicat <mark>ion of Vec</mark> tors.	
	P-13	Calculus, Differentiation, Integration, <mark>Functions with Mu</mark> ltiple Variables and Partial Differentiation.	
	P-14	Scalar and Vector Field, Gradient, Div <mark>erg</mark> ence, <mark>Curl.</mark>	

Chemistry 1st paper (Reference Book: UDV(ISH Parallel Text)				
Chapter	Lecture	Syllabus		
	C-05	Fundamental particles of atoms <mark>, introducti</mark> on, 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.		
Chapter-2 Qualitative Chemistry Introduction	C-07	Bohr's atomic model discus <mark>sion</mark> , 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, Hei <mark>senb</mark> erg's uncertainty principle, Schrodinger's wave equation, Related Math.		
	C-09	Quantum Number- Principa <mark>l Quant</mark> um numb <mark>er, Subsidiary Quant</mark> um 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, Pauli'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, Re <mark>lat</mark> ed 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: UDV(IS) 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: UDV(IS) 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, glyox <mark>ysome, va</mark> cuole.	
	B-05	Nucleus, Cell inclusions, Chromosome.	
	B-06	Hereditary material, DNA, RNA.	
	B-07	DNA replication, Transcription, Rever <mark>se T</mark> ranscr <mark>iption.</mark>	
	B-08	Translation, Central Dogma of Biol <mark>ogy, Ge</mark> ne, Gen <mark>etic Cod</mark> e.	

Zoology (Reference Book: UDV(IS) 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, Platyh <mark>emin</mark> thes.	
	Z-04	Nematoda, Mollusca, Anne <mark>lida.</mark>	
	Z-05	Arthropoda, Echinoderma <mark>ta.</mark>	
	Z-06	Chordata: Characteristics o <mark>f the various subp</mark> hylums <mark>and classe</mark> s of the order Chordata, classification of vertebrata.	

For any information regarding the online program contact the following numbers

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