## HSC 1st Year Academic Program Pioneer Batch [Online/Combo]

## Class & Exam Routine Part-03

	Live Class: 1	Live Class: 2	Live	Online: From 8:00am to 11:55pm
Date & Day	2:30 pm	6:30pm	Exam	Offline: From 9:00am to 5:00pm
01 September 2025 (Monday)	HM-05 H.Math: Chapter-01	<b>Z-01</b> Zoology: Chapter-01	1	e Exam <b>P-25</b> MCQ (10×1=10); 10 min. e Exam <b>C-29</b> MCQ (10×1=10); 10 min.
02 September 2025 (Tuesday) Chapter-wise Exam-12	Botany Chapter-05 (CQ 2×10=20)	; Time: 50min & (Pre-Admission MC	CQ 10×1=10); T	ime: 10min.
03 September 2025 (Wednesday	HM-06 H.Math: Chapter-01	<b>z-02</b> Zoology: Chapter-01	•	e Exam <b>HM-05</b> MCQ (10×1=10); 10 min. e Exam <b>Z-01</b> MCQ (10×1=10); 10 min.
04 September 2025 (Thursday)	Biology Problem Solving Class-0	2 (Evening- 6:30 PM)		
05 September 2025 (Friday)	P-26 Physics: Chapter-04	<b>C-30</b> Chemistry: Chapter-03	Daily Live	e Exam <b>HM-06</b> MCQ (10×1=10); 10 min. e Exam <b>Z-02</b> MCQ (10×1=10); 10 min.
06 September 2025 (Saturday)	P-27 Physics: Chapter-04	C-31 Chemistry: Chapter-03		e Exam <b>P-26</b> MCQ (10×1=10); 10 min. e Exam <b>C-30</b> MCQ (10×1=10); 10 min.
08 September 2025 (Monday)	HM-07 H.Math: Chapter-01	<b>Z-03</b> Zoology: Chapter-01	1	e Exam <b>P-27</b> MCQ (10×1=10); 10 min. e Exam <b>C-31</b> MCQ (10×1=10); 10 min.
10 September 2025 (Wednesday)	HM-08 H.Math: Chapter-01	<b>Z-04</b> Zoology: Chapter-01		e Exam <b>HM-07</b> MCQ (10×1=10); 10 min. e Exam <b>Z-03</b> MCQ (10×1=10); 10 min.
11 September 2025 (Thursday)	Physics Problem Solving Class-0	3 (Evening- 6:30 PM)		
12 September 2025 (Friday)	P-28 Physics: Chapter-04	<b>C-32</b> Chemistry: Chapter-03	,	e Exam <b>HM-08</b> MCQ (10×1=10); 10 min. e Exam <b>Z-04</b> MCQ (10×1=10); 10 min.
13 September 2025 (Saturday)	HM-45 H.Math: Chapter-07	C-33 Chemistry: Chapter-03	1	e Exam <b>P-28</b> MCQ (10×1=10); 10 min. e Exam <b>C-32</b> MCQ (10×1=10); 10 min.
14 September 2025 (Sunday) Chapter-wise Exam-13	Chemistry 1st Paper Chapter-03 10×1=10); Time: 10min.	[Part-01 Lecture C-23 to 30]; (CQ 2>	:10=20); Time	: 50min & (Pre-Admission MCQ
15 September 2025 (Monday)	P-29 Physics: Chapter-04	<b>2-05</b> Zoology: Chapter-01	1	e Exam <b>HM-45</b> MCQ (10×1=10); 10 min. e Exam <b>C-33</b> MCQ (10×1=10); 10 min.
16 September 2025 (Tuesday) Chapter-wise Exam-14	H.Math 1st Paper Chapter-01 (CC	2×10=20); Time: 50min & (Pre-Adr	nission MCQ	10×1=10); Time: 10min.
17 September 2025 (Wednesday)	HM-46 H.Math: Chapter-07	<b>z-06</b> Zoology: Chapter-01	1	e Exam <b>P-29</b> MCQ (10×1=10); 10 min. e Exam <b>Z-05</b> MCQ (10×1=10); 10 min.
18 September 2025 (Thursday)	Chemistry Problem Solving Class	s-03 (Evening- 6:30 PM)		
	Revised routine (	Sun-Mon-Wed-Thursda	y)	
21 September 2025 (Sunday)	<b>P-30</b> Physics: Chapter-04	<b>2-15</b> Zoology: Chapter-03	1	e Exam <b>HM-46</b> MCQ (10×1=10); 10 min. e Exam <b>Z-06</b> MCQ (10×1=10); 10 min.
22 September 2025 (Monday)	C-34 Chemistry: Chapter-03	HM-47 H.Math: Chapter-07		e Exam <b>P-30</b> MCQ (10×1=10); 10 min. e Exam <b>Z-15</b> MCQ (10×1=10); 10 min.
23 September 2025 (Tuesday)	Guideline Seminar-03	<u> </u>		
24 September 2025 (Wednesday)	HM-48 H.Math: Chapter-07	<b>Z-16</b> Zoology: Chapter-03	1	e Exam <b>C-34</b> MCQ (10×1=10); 10 min. e Exam <b>HM-47</b> MCQ (10×1=10); 10 min.
25 September 2025 (Thursday)	C-35 Chemistry: Chapter-03	P-31 Physics: Chapter-05	1	e Exam <b>HM-48</b> MCQ (10×1=10); 10 min. e Exam <b>Z-16</b> MCQ (10×1=10); 10 min.
26 September 2025 (Friday) Chapter-wise Exam-15	Zoology Chapter-01 (CQ 2×10=20)	); Time: 50min & (Pre-Admission M	CQ 10×1=10); 1	Time: 10min.
27 September 2025 (Saturday Chapter-wise Exam-16	Physics 1st Paper Chapter-04 (CC	2 2×10=20); Time: 50min & (Pre-Adr	mission MCQ	10×1=10); Time: 10min.
28 September 2025 (Sunday)	P-32 Physics: Chapter-05	<b>Z-17</b> Zoology: Chapter-03	Daily Live	e Exam <b>C-35</b> MCQ (10×1=10); 10 min. e Exam <b>P-31</b> MCQ (10×1=10); 10 min.
29 September 2025 (Monday)	C-36 Chemistry: Chapter-03	HM-49 H.Math: Chapter-07		e Exam <b>P-32</b> MCQ (10×1=10); 10 min. e Exam <b>Z-17</b> MCQ (10×1=10); 10 min.
Online classes and ex	ams will be closed from Septen	nber 30 to October 2 on the oc		
05 October 2025 (Sunday)	P-33 Physics: Chapter-05	<b>Z-18</b> Zoology: Chapter-03	Daily Live	e Exam <b>C-36</b> MCQ (10×1=10); 10 min. e Exam <b>HM-49</b> MCQ (10×1=10); 10 min.
06 October 2025 (Monday)	C-37 Chemistry: Chapter-04	HM-50 H.Math: Chapter-07	1	e Exam <b>P-33</b> MCQ (10×1=10); 10 min. e Exam <b>Z-18</b> MCQ (10×1=10); 10 min.

07 October 2025 (Tuesday)	H.Math Problem Solving Class-C	03 (Evening- 6:30 PM)	
•	-	<b>B-19</b> Botany: Chapter-04	Daily Live Exam <b>C-37</b> MCQ (10×1=10); 10 min.
08 October 2025 (Tuesday)	HM-51 H.Math: Chapter-07	B-19 Botany: Chapter-04	Daily Live Exam <b>HM-50</b> MCQ (10×1=10); 10 min.  Daily Live Exam <b>HM-51</b> MCQ (10×1=10); 10 min.
09 October 2025 (Thursday)	C-38 Chemistry: Chapter-04	<b>P-34</b> Physics: Chapter-05	Daily Live Exam <b>B-19</b> MCQ (10×1=10); 10 min.
10 October 2025 (Friday) Chapter-wise Exam-17	Chemistry 1st Paper Chapter-03 10×1=10); Time: 10min.	[Part-02 Lecture C-31 to 36]; (CQ 2	×10=20); Time: 50min & (Pre-Admission MCQ
12 October 2025 (Sunday)	P-35 Physics: Chapter-05	<b>B-20</b> Botany: Chapter-04	Daily Live Exam <b>C-38</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-34</b> MCQ (10×1=10); 10 min.
13 October 2025 (Monday)	C-39 Chemistry: Chapter-04	HM-52 H.Math: Chapter-07	Daily Live Exam <b>P-35</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-20</b> MCQ (10×1=10); 10 min.
14 October 2025 (Tuesday)	Biology Problem Solving Class-	03 (Evening- 6:30 PM)	
15 October 2025 (Wednesday)	HM-53 H.Math: Chapter-07	<b>B-21</b> Botany: Chapter-04	Daily Live Exam <b>C-39</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-52</b> MCQ (10×1=10); 10 min.
16 October 2025 (Thursday)	C-40 Chemistry: Chapter-04	P-36 Physics: Chapter-05	Daily Live Exam <b>HM-53</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-21</b> MCQ (10×1=10); 10 min.
17 October 2025 (Friday) Chapter-wise Exam-18	Zoology Chapter-03 (CQ 2×10=2	0); Time: 50min & (Pre-Admission N	1CQ 10×1=10); Time: 10min.
19 October 2025 (Sunday)	<b>P-37</b> Physics: Chapter-06	<b>B-22</b> Botany: Chapter-04	Daily Live Exam <b>C-40</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-36</b> MCQ (10×1=10); 10 min.
20 October 2025 (Monday)	C-41 রসায়ন: অধ্যায়-০৪	HM-54 H.Math: Chapter-07	Daily Live Exam <b>P-37</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-22</b> MCQ (10×1=10); 10 min.
22 October 2025 (Wednesday)	HM-55 H.Math: Chapter-07	<b>B-23</b> Botany: Chapter-04	Daily Live Exam <b>C-41</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-54</b> MCQ (10×1=10); 10 min.
23 October 2025 (Thursday)	C-42 Chemistry: Chapter-04	<b>P-38</b> Physics: Chapter-06	Daily Live Exam <b>HM-55</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-23</b> MCQ (10×1=10); 10 min.
24 October 2025 (Friday) Chapter-wise Exam-19	Physics Chapter-05 (CQ 2×10=20	)); Time: 50min & (Pre-Admission M	CQ 10×1=10); Time: 10min.
26 October 2025 (Sunday)	P-39 Physics: Chapter-06	<b>B-24</b> Botany: Chapter-04	Daily Live Exam <b>C-42</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-38</b> MCQ (10×1=10); 10 min.
27 October 2025 (Monday)	C-43 Chemistry: Chapter-04	HM-56 H.Math: Chapter-07	Daily Live Exam <b>P-39</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>B-24</b> MCQ (10×1=10); 10 min.
28 October 2025 (Tuesday)	Physics Problem Solving Class-	04 (Evening- 6:30 PM)	
29 October 2025 (Wednesday)	HM-57 H.Math: Chapter-08	<b>Z-19</b> Zoology: Chapter-04	Daily Live Exam <b>C-43</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-56</b> MCQ (10×1=10); 10 min.
30 October 2025 (Thursday)	C-44 Chemistry: Chapter-04	P-40 Physics: Chapter-06	Daily Live Exam <b>HM-57</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>Z-19</b> MCQ (10×1=10); 10 min.
31 October 2025 (Friday) Chapter-wise Exam-20	Botany Chapter-04 (CQ 2×10=20	); Time: 50min & (Pre-Admission M	CQ 10×1=10); Time: 10min.
01 November 2025 (Saturday) Chapter-wise Exam-21	ovember 2025 (Saturday)  H.Math Chapter-07 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
02 November 2025 (Sunday)	P-41 Physics: Chapter-06	<b>Z-20</b> Zoology: Chapter-04	Daily Live Exam <b>C-44</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>P-40</b> MCQ (10×1=10); 10 min.
03 November 2025 (Monday)	C-45 Chemistry: Chapter-04	HM-58 H.Math: Chapter-08	Daily Live Exam <b>P-41</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>Z-20</b> MCQ (10×1=10); 10 min.
04 November 2025 (Tuesday)	Guideline Seminar-04		
05 November 2025 (Wednesday)	HM-59 H.Math: Chapter-08	<b>Z-21</b> Zoology: Chapter-04	Daily Live Exam <b>C-45</b> MCQ (10×1=10); 10 min. Daily Live Exam <b>HM-58</b> MCQ (10×1=10); 10 min.
06 November 2025 (Thursday)	<b>C-46</b> Chemistry: Chapter-04	P-42 Physics: Chapter-06	Daily Live Exam <b>HM-59</b> MCQ (10×1=10); 10 min.
07 November 2025 (Friday)	Chemistry 1st Paner Chanter-04	   [Part-01   ecture C-37 to 44]: (CO 2	Daily Live Exam <b>Z-21</b> MCQ (10×1=10); 10 min.
Chapter-wise Exam-22	Chemistry 1st Paper Chapter-04 [Part-01 Lecture C-37 to 44]; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min		
09 November 2025 (Sunday)	<b>P-61</b> Physics: Chapter-10	<b>Z-22</b> Zoology: Chapter-04	Daily Live Exam <b>C-46</b> MCQ (10×1=10); 10 min.
10 November 2025 (Monday)	C-47 Chamistry Chapter 04	LM_60 H Math: Chapter 00	Daily Live Exam <b>P-42</b> MCQ (10×1=10); 10 min.  Daily Live Exam <b>P-61</b> MCQ (10×1=10); 10 min.
10 November 2025 (Monday)	C-47 Chemistry: Chapter-04	HM-60 H.Math: Chapter-08	Daily Live Exam <b>Z-22</b> MCQ (10×1=10); 10 min.
11 November 2025 (Tuesday)	Chemistry Problem Solving Clas	ss-03 (Evening- 6:30 PM)	
12 November 2025 (Wednesday)	HM-61 H.Math: Chapter-08	<b>Z-23</b> Zoology: Chapter-04	Daily Live Exam <b>C-47</b> MCQ (10×1=10); 10 min.  Daily Live Exam <b>HM-60</b> MCQ (10×1=10); 10 min.

## \*\*\*The routine can change or be modified in case of special necessities\*\*\*

- Online Class and Exam Procedure:
- To participate in classes and exams, visit udvash.com and click on the "Join Now" menu. Log in using your admitted registration number.
- Daily Live Classes will be held as per the schedule, with two separate subject classes per day at the mentioned date and time.
- Daily Live Exams will be available as per the schedule from 8:00am to 11:55pm, where students can take the exam once per with two separate Subject. However, for additional practice, students can take the Practice Exam multiple times with the same syllabus.
- To watch recorded videos and PDFs of daily classes, use the "Past Classes/Course & Content" option.
- To access Archive Classes & One Shot CQ-MCQ Classes, use the "Course & Content" option.
- The Q&A option is available 24/7 to resolve subject-related queries after the class.
- All students enrolled in the Combo Batch can take chapter-based exams both online and at any nearby branch (from 9:00am to 5:0

## HSC 1st YeaAcademic Program Pioneer Batch (Class & Exam Syllabus-03)

Physics 1st paper <b>Reference Book: 피고리에 T든X</b> T			
Chapter	Lecture	Lecture-based discussion	
	P-26	Center of mass, impulse and impact force, applica <mark>bility and</mark> applications of Newton's laws, standing on the ground, walking, pulling a	
		horse cart, towing a boat, space missions and ro <mark>cket mot</mark> ion, interrelation of Newton's laws of motion.	
	P-27	Uniform circular motion, centripetal force, ce <mark>ntrifugal f</mark> orce, banking of curved roads for vehicles (bicycles, trains, motor vehicles).	
Chapter-4	P-28	Rotational inertia: moment of inertia, radius <mark>of gyratio</mark> n, perpendicular axis theorem, parallel axis theorem.	
Newtonian	P-29	CQ & Admission Standard Problems to moment of inertia, torque, quantities for torque, vector representation of torque, torque and	
Mechanics	P-29	angular acceleration	
		Angular momentum, equivalen <mark>t meth</mark> ods fo <mark>r calculat</mark> ing angular momentum, angular momentum of a rotating object in circular	
	P-30	motion, relationship between <mark>torque (</mark> τ) and a <mark>ngular m</mark> omentum (L ¯), Newton's laws for rotational motion, applications of Newton's	
		laws in rotational motion, mathematical problems.	
	P-31	Work, positive, negative, and z <mark>ero work, c</mark> onstant and variable force, work done by a constant force.	
	P-32	Work done by a variable force, spring force, work done in rotational motion, displacement of the center of mass and mathematical problems.	
		CQ & Admission Standard math <mark>ematical problems</mark> related to center of mass displacement, dependency of work done on the path,	
Chapter-5	P-33	kinetic energy and work-energy theorem, kinetic energy of a rotating object, kinetic energy of an object undergoing both	
Work, Energy		translational and rotat <mark>ional m</mark> otion.	
and Power	P-34	Conservative forces, non-conservative forces, potential energy, gravitational potential energy, elastic potential energy, relationship	
	. 31	between potential ener <mark>gy and force.</mark>	
	P-35	Problems related to pot <mark>ential energy and ki</mark> netic energy, Changes in work done and mechanical energy, conservation of mechanical	
	. 55	energy, principle of cons <mark>ervation of energy.</mark>	
	P-36	Power, efficiency, mathematical problems, and problems related to work done, wells and cisterns.	
	P-37	Falling objects, Kepler's laws of planetary motion, gravitation, vector representation of gravitational force, inertial mass and	
		gravitational mass, gravity and gravitational acceleration.	
		Determination of g: relationship between gravitational constant and gravitational acceleration, variations in gravitational	
	P-38	acceleration, changes in g due to the shape of the Earth, variation of g with altitude, variation of g with depth from the Earth's	
Chapter-6		surface, variation of g due to Earth's rotation.	
Gravitation	P-39	Center of gravity, gravitational field, gravitational field intensity.	
and Gravity	P-40	Gravitational potential, relationship between gravitational field intensity and gravitational potential, gravitational potential energy	
	P-41	Escape velocity, applications of the law of gravitation, application of the law of gravitation in hollow spheres, application of the law of	
		gravitation in solid spheres.	
		Relationship between Newton's law of gravitation and Kepler's laws, applications of the law of gravitation: satellite motion, quantities	
	P-42	related to, geostationary satellites, polar satellites, applications of the law of gravitation: weightlessness in space, applications of the	
		law of gravitation: exploration of natural resources and material research.	
Chapter-10		Gases, pressure of gases, volume of gases, temperature of gases, number of gases, gas laws, relationship between pressure and	
Ideal gas and	P-61	volume, relationship between volume and temperature, Boyle's law or pressure law.	
kinetics of	. 01		
gases			

Chemistry 1st Paper Reference Book:				
Chapter	Lecture	Lecture-based discussion		
Chapter 2	C-30	Electron affinity, Electronegativity, Melting point/Boiling point.		
Chapter-3 Periodic	C-31	Chemical Bonds-Ionic bond, Metallic bond, Covalent bond, Classification of covalent bond, lewis dot structure.		
Properties	C-32	Orbital overlapping. Hybridization, Classification of Hybrid orbitals.		
and	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.		

Bonding in	C-34	Ligand, Coordinate covalent bond.
Elements	6.25	Effect of electronegativity on compounds with chemical bonds- Polarization or deformation of ion, Covalent properties in ionic
	C-35	compounds, Fajan's rule, Effect of polarization on salt.
	C-36	Weak chemical bonds- Vander Waals force, H bond, Importance of H bond, Naming of inorganic compounds.
	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.
Chapter-4	C-41	Effect of Pressure on rate of reaction, Effect of concentra <mark>tio</mark> n on rate of reaction, Effect of catalyst on rate of reaction.
Chemical	C-42	Equilibrium of Chemical Reaction - Equilibrium and its Dynamics.
Changes	C-43	Le-Chatelier's Principle Effect of temperature, pressure and concentration on equilibrium, Use in industry (Le-Chatelier's Principle).
	C-44	Law of mass action, Discussion about equilibrium constant $(K_p$ and $K_c$ ).
	C-45	Derivation of mathematical expression of $K_{\rm p}$ and $K_{\rm c}$

		H.Math 1st Paper Reference Book: मातालाल T∉XT
Chapter	Lecture	Lecture-based discussion
Chapter-1	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, prob <mark>lems r</mark> elated <mark>to invers</mark> e matrix, properties of determinant.
Matrix &	HM-07	Exercise - 1.2; Problems related to proof of identity with determinants, proof without expansion.
Determinant	HM-08	Exercise - 1.2; Solving equations with determinants, Solving systems of equations - Cramer's rule, solving systems of equations - Inverse
	1114-00	matrix method, Problems relate <mark>d to solving</mark> systems of equations, Special formula related to the magnitude of determinants.
	HM-45	Exercise – 7.1; Trigonometric ratio of $\theta$ or positive acute angle: (- $\theta$ ) or negative angle: (90° – $\theta$ ), i.e. trigonometric ratio of angle $\theta$ : Co-
	111113	function: Trigonometric ratio of angle (90° + $\theta$ ), (180° - $\theta$ ), (180° + $\theta$ ), (270° - $\theta$ ), (270° + $\theta$ ), Trigonometric quantities
	HM-46	Exercise – 7.1; problems involving associated angles, Problems related to sum of squares of trigonometric ratios, Multiplication and
	111110	problems of Tangent or C <mark>otan</mark> gent 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 $\frac{\cos A \pm \sin A}{\cos A \mp \sin A}$
Chapter-7	1111 40	formula, problems related to A + B = constant, Finding the maximum/minimum value of a trigonometric expression.
Trigonometri	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 $TF_1C \pm \cos(A - B)$
c Ratios of	111-1-43	TF <sub>2</sub> D, problems related to sinA + cosA.
Associated	HM-50	Exercise – 7.4; Trigonometric ratios of multiple angles, formulae and problems for trigonometric ratios of 2A angles, series related
and	1111 30	(arithmetic and geometric series) and problems.
Compound	HM-51	Exercise - 7.4; Problems related to periodic square roots, Trigonometric ratios of 3A angles and problems, Trigonometric ratios of specific angles.
Angles	HM-52	Exercise – 7.5; Formulae and problems related to proof, Problems related to determining the values of various trigonometric ratios from
	1111 32	the values of cos x + cos y and sinx + siny.
	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.
	HM-56	Exercise – 7.7; progression related, trigonometric ratios of half angles of a triangle and formulae, Area of a triangle related, relationship
	111-1-30	between the in-radius and the circumradius: Area related, determining the nature of a triangle based on conditions, others.
	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.
Chapter-8 Functions and Graph of	HM-58	Exercise – 8; Problems related to determining the value of functions, One-one function and many-one function, Onto function, Bijective
		function.
	HM-59	Exercise – 8; Inverse function and inverse relation, discussion on inverse function, domain-range determination method
Functions	HM-60	Exercise – 8; Transformation of functions and relations, transformation of graphs, change in shape of graphs, reflection of graphs,
		symmetry of graphs.
	HM-61	Exercise – 8; Various functions related to square roots, rational functions $\left(f(x) = \frac{P(x)}{Q(x)}\right)$ , n-th root related functions, absolute value
		related functions, exponential functions ( $y = a^x$ ; $a > 0$ , $a \ne 1$ ), logarithmic functions,
		Zoology 2nd Paper Reference Book: मातालाल T은XT

Chapter	Lecture	Lecture-based discussion
Chapter 1	Z-01	Animal Diversity: types of animal diversity, classification of animal kingdom, Basis of animal classification, Principles of animal classification
Chapter-1	Z-02	Nomenclature of animals, principles of nomenclature of animals, classification of animal kingdom, major phyla of animal kingdom: Non-chordate
Animal	Z-03	Porifera, Cnidaria, Platyheminthes, Nematoda.
Diversity and Classification	Z-04	Mollusca, Annelida, Arthropoda, Echinodermata.
Classification	Z-05	Chordata: characteristics of various sub-phylum and classes of chordata, classification of vertebrates (cyclostomata)

	Z-06	Classification of vertebrates (Gnathostomata)
Chapter-3	Z-15	Digestion: Types of digestion, Digestive system, Oral Cavity, Digestion of food in mouth, Dental formula, Pharynx, Esophagus
Human	Z-16	Stomach, Digestion of food in stomach, Small Intestine, Digestion of food in small intestine, Large intestine
Physiology:	Z-17	Digestive glands: salivary glands, liver, pancreas, gastric glands, intestinal glands, Role of nervous system and hormones in digestion
Digestion and	Z-18	Absorption of digested food: components of food and their absorption, fate of absorbed nutrientts, Obesity
Absorption	2-10	
Chaobas 4	Z-19	Blood, Components of blood, Plasma, Blood Corpuscle, Red Blood Corpuscle
Chapter-4	Z-20	White Blood Corpuscle, Types of White Blood Corpuscle, Platelets
Human	Z-21	Mechanism of blood clotting, Lymph, Lymphatic System, Blood Vessel, Types of blood vessels
Physiology: Blood and	Z-22	Heart (Location, Shape and size, Covering, Wall), Structure of cardiac muscle, Chambers of the heart, Valves of the heart, Circulation of
Circulation	L-22	blood through the heart
Circulation	Z-23	Heartbeat-Cardiac Cycle, Myogenic control of heartbeat and transmission of impulse

Botany 1st Paper Reference Book: मातालाल T∉×T				
Chapter	Lecture	Lecture-based discussion		
	B-19	virus: contribution of scientists in the discovery of virus, structure of virus, classification of virus, parasitism of virus, emerging virus,		
	D-19	subviral entities, T <sub>2</sub> bacteriophage, COV <mark>ID</mark> -19 <mark>Corona vir</mark> us		
Chapter-4	B-20	Lifecycle of virus, importance of virus <mark>, v</mark> iral di <mark>seases at a</mark> glance, description of some viral diseases		
Microorganis	B-21	Bacteria: Characteristics of bacteri <mark>a: dis</mark> tribut <mark>ion and h</mark> abitat of bacteria: types of bacteria, structure of an ideal bacterium		
ms	B-22	Reproduction of bacteria, import <mark>ance of</mark> bacte <mark>ria, some</mark> bacterial diseases		
	B-23	Malaria: Infection of malaria, Pre <mark>vention</mark> and control of Malaria, Lifecycle of malarial parasite in human body		
	B-24	Lifecycle of Malarial parasite in mosquito, Alternation of generation of malarial parasite		







দেশব্যাপী ৬৪ জেলায় ১১১ টি শাখায়

HSC 1st Year কার্যক্রম চলবে।
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