HSC 2nd Year Academic Program Pioneer Batch [Online/Combo]

Class & Exam Routine-02 (English Version)

Date & Day	Live Class: 1 2:30pm	Live Class: 2 6:30pm	Live Exam Online: From 8:00am to 11:55pm Offline: From 9:00am to 5:00pm
29 May 2025 (Thursday)	Guideline Seminar-02		
30 May 2025 (Friday)	**P-21** Physics: Chapter-3	**HM-20** H.Math: Chapter-4	Daily Live Exam **P-20** MCQ (10×1=10); 10 min. Daily Live Exam **C-21** MCQ (10×1=10); 10 min.
31 May 2025 (Saturday)	**C-22** Chemistry: Chapter-2	**HM-31** H.Math: Chapter-6	Daily Live Exam **P-21** MCQ (10×1=10); 10 min. Daily Live Exam **HM-20** MCQ (10×1=10); 10 min.
02 June 2025 (Monday)	**Z-13** Zoology: Chapter-9	**C-23** Chemistry: Chapter-2	Daily Live Exam **C-22** MCQ (10×1=10); 10 min. Daily Live Exam **HM-31** MCQ (10×1=10); 10 min.
Online classes and exams will be closed from June 3 to June 15 on the occasion of Eid-ul-Azha.			
16 June 2025 (Monday)	**Z-14** Zoology: Chapter-9	**C-24** Chemistry: Chapter-2	Daily Live Exam **Z-13** MCQ (10×1=10); 10 min. Daily Live Exam **C-23** MCQ (10×1=10); 10 min.
18 June 2025 (Wednesday)	**P-22** Physics: Chapter-3	**Z-15** Zoology: Chapter-9	Daily Live Exam **Z-14** MCQ (10×1=10); 10 min. Daily Live Exam **C-24** MCQ (10×1=10); 10 min.
19 June 2025 (Thursday)	Physics Problem Solving Class-02 (Evening- 6:30pm)		
20 June 2025 (Friday)	**P-23** Physics: Chapter-3	**HM-32** H.Math: Chapter-6	Daily Live Exam **P-22** MCQ (10×1=10); 10 min. Daily Live Exam **Z-15** MCQ (10×1=10); 10 min.
21 June 2025 (Saturday)	**C-25** Chemistry: Chapter-2	**HM-33** H.Math: Chapter-6	Daily Live Exam **P-23** MCQ (10×1=10); 10 min. Daily Live Exam **HM-32** MCQ (10×1=10); 10 min.
22 June 2025 (Sunday) **Chapter-wise Exam-12**	**Botany Chapter-08 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
23 June 2025 (Monday)	**C-26** Chemistry: Chapter-2	**Z-16** Zoology: Chapter-9	Daily Live Exam **C-25** MCQ (10×1=10); 10 min. Daily Live Exam **HM-33** MCQ (10×1=10); 10 min.
25 June 2025 (Wednesday)	**P-24** Physics: Chapter-3	**Z-17** Zoology: Chapter-9	Daily Live Exam **C-26** MCQ (10×1=10); 10 min. Daily Live Exam **Z-16** MCQ (10×1=10); 10 min.
26 June 2025 (Thursday)	Chemistry Problem Solving Class-02 (Evening- 6:30pm)		
27 June 2025 (Friday)	**P-25** Physics: Chapter-4	**HM-21** H.Math: Chapter-4	Daily Live Exam **P-24** MCQ (10×1=10); 10 min. Daily Live Exam **Z-17** MCQ (10×1=10); 10 min.
28 June 2025 (Saturday)	**P-26** Physics: Chapter-4	**HM-34** H.Math: Chapter-6	Daily Live Exam **P-25** MCQ (10×1=10); 10 min. Daily Live Exam **HM-21** MCQ (10×1=10); 10 min.
29 June 2025 (Sunday) **Chapter-wise Exam-13**	**Physics 2nd Paper Chapter-03 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
30 June 2025 (Monday)	**B-09** Botany: Chapter-9	**C-27** Chemistry: Chapter-2	Daily Live Exam **P-26** MCQ (10×1=10); 10 min. Daily Live Exam **HM-34** MCQ (10×1=10); 10 min.
02 July 2025 (Wednesday)	**B-10** Botany: Chapter-9	**C-28** Chemistry: Chapter-2	Daily Live Exam **B-09** MCQ (10×1=10); 10 min. Daily Live Exam **C-27** MCQ (10×1=10); 10 min.
03 July 2025 (Thursday)	Guideline Seminar-03		
04 July 2025 (Friday)	**P-27** Physics: Chapter-4	**HM-22** H.Math: Chapter-4	Daily Live Exam **B-10** MCQ (10×1=10); 10 min. Daily Live Exam **C-28** MCQ (10×1=10); 10 min.
05 July 2025 (Saturday)	**P-28** Physics: Chapter-4	**HM-35** H.Math: Chapter-6	Daily Live Exam **P-27** MCQ (10×1=10); 10 min. Daily Live Exam **HM-22** MCQ (10×1=10); 10 min
06 July 2025 (Sunday) **Chapter-wise Exam-14**	**Zoology Chapter-09 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
07 July 2025 (Monday)	**B-11** Botany: Chapter-9	**C-29** Chemistry: Chapter-2	Daily Live Exam **P-28** MCQ (10×1=10); 10 min. Daily Live Exam **HM-35** MCQ (10×1=10); 10 min.

09 July 2025 (Wednesday)	**B-12** Botany: Chapter-9	**C-30** Chemistry: Chapter-2	Daily Live Exam **B-11** MCQ (10×1=10); 10 min. Daily Live Exam **C-29** MCQ (10×1=10); 10 min.
10 July 2025 (Thursday)	Biology Problem Solving Class-03 (Evening- 6:30pm)		
11 July 2025 (Friday)	**P-29** Physics: Chapter-4	**HM-69** H.Math: Chapter-10	Daily Live Exam **B-12** MCQ (10×1=10); 10 min. Daily Live Exam **C-30** MCQ (10×1=10); 10 min.
12 July 2025 (Saturday)	**P-30** Physics: Chapter-4	**HM-36** H.Math: Chapter-6	Daily Live Exam **P-29** MCQ (10×1=10); 10 min. Daily Live Exam **HM-69** MCQ (10×1=10); 10 min
13 July 2025 (Sunday) **Chapter-wise Exam-15**	**Math 2nd Paper Chapter-04 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
14 July 2025 (Monday)	**B-13** Botany: Chapter-9	**C-31** Chemistry: Chapter-2	Daily Live Exam **P-30** MCQ (10×1=10); 10 min. Daily Live Exam **HM-36** MCQ (10×1=10); 10 min.
16 July 2025 (Wednesday)	**B-14** Botany: Chapter-9	**C-32** Chemistry: Chapter-2	Daily Live Exam **B-13** MCQ (10×1=10); 10 min. Daily Live Exam **C-31** MCQ (10×1=10); 10 min.
17 July 2025 (Thursday)	H.Math Problem Solving Class-03 (Evening- 6:30pm)		
18 July 2025 (Friday)	**P-31** Physics: Chapter-4	**HM-70** H.Math: Chapter-10	Daily Live Exam **B-14** MCQ (10×1=10); 10 min. Daily Live Exam **C-32** MCQ (10×1=10); 10 min.
19 July 2025 (Saturday)	**P-32** Physics: Chapter-5	**HM-37** H.Math: Chapter-6	Daily Live Exam **P-31** MCQ (10×1=10); 10 min. Daily Live Exam **HM-70** MCQ (10×1=10); 10 min
20 July 2025 (Sunday) **Chapter-wise Exam-16**	**Chemistry 2nd Paper Chapter-02 [Part-02 Lecture C-20 to 27]; (CQ 2×10=20); Time: 50min &** **(Pre-Admission MCQ 10×1=10); Time: 10min.**		
21 July 2025 (Monday)	**B-15** Botany: Chapter-9	**C-33** Chemistry: Chapter-2	Daily Live Exam **P-32** MCQ (10×1=10); 10 min. Daily Live Exam **HM-37** MCQ (10×1=10); 10 min.
23 July 2025 (Wednesday)	**B-16** Botany: Chapter-9	**C-34** Chemistry: Chapter-2	Daily Live Exam **B-15** MCQ (10×1=10); 10 min. Daily Live Exam **C-34** MCQ (10×1=10); 10 min.
24 July 2025 (Thursday)	Physics Problem Solving Class-03 (Evening- 6:30pm)		
25 July 2025 (Friday)	**P-33** Physics: Chapter-5	**HM-71** H.Math: Chapter-10	Daily Live Exam **B-16** MCQ (10×1=10); 10 min. Daily Live Exam **P-35** MCQ (10×1=10); 10 min.
26 July 2025 (Saturday)	**P-34** Physics: Chapter-5	**HM-38** H.Math: Chapter-6	Daily Live Exam **P-33** MCQ (10×1=10); 10 min. Daily Live Exam **HM-71** MCQ (10×1=10); 10 min
27 July 2025 (Sunday) **Chapter-wise Exam-17**	**Physics 2nd Paper Chapter-04 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
28 July 2025 (Monday)	**Z-18** Zoology: Chapter-10	**C-35** Chemistry: Chapter-2	Daily Live Exam **P-34** MCQ (10×1=10); 10 min. Daily Live Exam **HM-38** MCQ (10×1=10); 10 min.
29 July 2025 (Tuesday) **Chapter-wise Exam-18**	**Botany Chapter-09 (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
30 July 2025 (Wednesday)	**Z-19** Zoology: Chapter-10	**C-36** Chemistry: Chapter-2	Daily Live Exam **Z-18** MCQ (10×1=10); 10 min. Daily Live Exam **C-35** MCQ (10×1=10); 10 min.
31 July 2025 (Thursday)	Guideline Seminar-04		
The next class and exam routine (Part-03) will be published...			
*****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 5:00pm**).
- To get updates quickly, join our Facebook group (**HSC & Admission উদ্ভাস-উন্মেষ**).

HSC 2nd Year Academic Program Pioneer Batch (Class & Exam Syllabus-02)

Physics 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-3 Current Electricity	P-21	Voltage divider law, Current divider law, Shunt, Relation between shunt current and galvanometer current, Use of shunt on ammeter, Increasing the range of ammeter, Use of Shunt on voltmeter, Increasing the range of voltmeter.
	P-22	kWh, Rating of Electrical Devices, Rating of Voltage, Rating of Watt, Security fuse, Voltage on various points of a circuit, Combination of cells, Series and parallel connection, Mixed connection.
	P-23	Kirchhoff's law: First law, second law, General mathematical problems related to Kirchhoff's law.
	P-24	CQ and admission standard mathematical problems related to Kirchhoff's law, Wheatstone Bridge, Potentiometer, Meter Bridge.
Chapter-4 Magnetic Effects of Current and Magnetism	P-25	Basic concepts of magnetic materials, magnetic field, Oersted's principle, Biot-Savart law, applications of Biot-Savart law, determination of the magnitude and direction of the magnetic field at a point near an infinitely long straight current-carrying wire, and general mathematical problems.
	P-26	Determination of the magnitude and direction of the magnetic field at the center of a current-carrying circular coil, Ampere's law, applications of Ampere's law, and general mathematical problems related to magnetic field determination.
	P-27	CQ & Admission Standard mathematical problems related to magnetic field determination, magnetic force, Lorentz force, and related mathematical problems, motion of a charge in a magnetic field, circular motion, and related mathematical problems.
	P-28	Spiral motion of a charge and mathematical problems, Hall effect, Hall voltage, and related mathematical problems, force on a current-carrying conductor in a magnetic field, Fleming's left-hand rule, and related mathematical problems.
	P-29	Force between two infinitely long parallel current-carrying conductors, torque acting on a closed current loop in a magnetic field, and general mathematical problems.
	P-30	CQ & Admission Standard mathematical problems related to force and torque in a magnetic field, magnetic field due to the orbital motion of an electron and the expression for magnetic dipole moment, magnetic dipole moment due to the spin of an electron or its rotation about its own axis.
	P-31	Geomagnetism, several definitions related to geomagnetism, and hysteresis.
Chapter-5 Electromagnetic Induction and Alternating Current	P-32	Electromagnetic Induction, Magnetic Flux, Faraday's Laws of Electromagnetic Induction, First Law, Second Law, Lenz's Law, Lenz's Law and the Conservation of Energy, and Related Mathematical Problems.
	P-33	CQ & Admission Standard Mathematical Problems on Faraday's Law and Lenz's Law, Self-Induction, Determination of Self-Inductance Coefficient, Direction of Induced Electromotive Force Due to Self-Induction, and General Mathematical Problems
	P-34	CQ & Admission Standard Mathematical Problems on Self-Induction, Non-Inductive Coil, Mutual Induction, Applications of Mutual Induction: Transformer and General Mathematical Problems.

Chemistry 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-2 Organic Chemistry	C-22	Toluene and everything of it
	C-23	Alkyl halide and everything about it.
	C-24	Nucleophile substitution (S_N1 and S_N2), Electrophilic elimination (E1 and E2)
	C-25	Aryl Halide and everything of it
	C-26	Everything about alcohol and ether.
	C-27	Phenol and everything about it.
	C-28	Aldehyde-Ketone introduction & preparation
	C-29	Aldehyde-Ketone chemical reaction and everything else
	C-30	Aromatic aldehyde-ketone and everything of it.
	C-31	Carboxylic acid and everything about it.
	C-32	Benzoic acid and everything about it.
	C-33	Amine and everything about it.
	C-34	Aneline and everything of it
	C-35	Aromatic Nitro compound and everything of it.
	C-36	Benzene Diazonium Chloride and everything of it.

H.Math 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-4	HM-20	Exercise-8; Graph of $y = f(x) = ax^n + b$[n odd and even], common root, Relationship between coefficients and roots of cubic equations.

Polynomials and Polynomial equations	HM-21	Exercise-4; Relationship between coefficients and roots of polynomial equations and formation of polynomial equations, equations with symmetric roots.
	HM-22	Exercise-4; Trigonometric polynomial functions and their types, equations with roots included in the progression, value of symmetric terms of roots.
Chapter-6 Conics	HM-31	Exercise-6.1; Parametric equation of parabola, polar equation of parabola, determining equation of parabola from definition of conic.
	HM-32	Exercise-6.1; Minimum distance of parabola from external point, determining equation of parabola from end point of latus rectum, application of parabola equation in real life problems.
	HM-33	Exercise-6.2; Ellipse, standard equation of parabola, axis shift.
	HM-34	Exercise-6.2; Determine the equation of the ellipse from various elements, $SP + S'P$ =length of the major axis, parametric coordinates of the ellipse.
	HM-35	Exercise-6.2; Determining the equation of an ellipse from the definition of a conic, determining the equation from a focus, its opposite diretix and eccentricity of an ellipse related, special problems, Exercise-6.3; Hyperbola, standard equation of hyperbola.
	HM-36	Exercise-6.3; Axis transfer, determining the equation of a hyperbola from various materials.
	HM-37	Exercise-6.3; $\lvert SP - S'P \rvert$ = minor axis length, asymptote, rectangular hyperbola, parametric coordinates of a hyperbola, determining the equation of a hyperbola from the definition of a conic.
	HM-38	Exercise-6.3; General equation of conic, location of point with respect to conic, tangent and intersection of conic related, identification of conic.
Chapter-10 Measures of Dispersions and Probability	HM-69	Exercise-10.1; Categorized and uncategorized data, population, Population census, mean, median, standard deviation, central tendency, measure of dispersion, range, coefficient of range, mean deviation, coefficient of mean deviation.
	HM-70	Exercise-10.1; Variance, standard deviation, quartile deviation, coefficient of quartile deviation.
	HM-71	Exercise-10.2; Concept of probability, topics related to probability, sample area, event, probability measurement.

Botany Reference Book: শতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-09 Plant Physiology	B-09	Mineral salt absorption, Essential elements for plants, Availability of mineral salts for plants, Mechanism of mineral salt absorption by plants.
	B-10	Transpiration, Types of transpiration, Factors of transpiration, Structure of stomata.
	B-11	Explanation of some relevant terms related to transpiration, Mechanism of opening and closing of stomata.
	B-12	Photosynthesis, Photosynthetic organs and pigments, Absorption spectrum of light, Effective spectrum of light, Photosystem, Mechanism of photosynthesis, Light dependent phase, cyclic and non-cyclic photophosphorylation.
	B-13	Light independent phase, Calvin cycle, Hatch and Slack cycle, Comparison between C_3 *and* C_4, plants, Comparison between Calvin cycle and Slack cycle, Characteristics and importance of C_4 plants.
	B-14	Source of the oxygen (O_2) released in photosynthesis, factors of photosynthesis, limiting factor, Rate of photosynthesis, Importance of photosynthesis in living world.
	B-15	Respiration, Aerobic Respiration, Steps of Aerobic Respiration, Glycolysis, Oxidation of Pyruvic Acid, Kreb's Cycle.
	B-16	Transfer of electron and oxidative phosphorylation, Anaerobic respiration, Use of anaerobic respiration in various industries, Respiratory rate/quotient, Factors of respiration, Importance of respiration.

Zoology Reference Book: শতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion topics**
Chapter-9 Continuation of human life	Z-13	Reproductive system, male reproductive system, female reproductive system, different stages and phases of reproduction, puberty
	Z-14	Menstrual cycle, formation of gamete (spermatogenesis, sperm formation, oogenesis, formation of ovum).
	Z-15	Fertilization, implantation, placenta, foetal membranes, human embryogenesis, embryo and fetus development.
	Z-16	Family planning and contraceptive methods, IVF method, reproductive system problems, reproductive hormone imbalances.
	Z-17	Problems during fetal development, sexually transmitted diseases.
Chapter-10 Defence system of Human Body	Z-18	Immunity and immunology, components of the immune system.
	Z-19	The human body's defense system and the layers of the immune system, first line of defense, second line of defense.