HSC 2nd Year Academic Program Pioneer Batch [Online]

Class & Exam Routine-01 (English Version)

Date & Day	Live Class: 1	Live Class: 2	Live Exam
	9:15am	1:30pm	Online: From 8:00am to 11:55pm
05 March 2025 (Wednesday)	C-01 Chemistry: Chapter-1	HM-07 H.Math: Chapter-3	**Basic Introductory** Exam MCQ (10×1=10); 10 min.
06 March 2025 (Thursday)	P-01 Physics: Chapter-1	Z-01 Zoology: Chapter-7	Daily Live Exam [C-01] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-07] **MCQ** (10×1=10); 10 min.
08 March 2025 (Saturday)	Z-02 Zoology: Chapter-7	HM-01 H.Math: Chapter-1	Daily Live Exam [P-01] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-01] **MCQ** (10×1=10); 10 min.
10 March 2025 (Monday)	P-02 Physics: Chapter-1	C-02 Chemistry: Chapter-1	Daily Live Exam [Z-02] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-01] **MCQ** (10×1=10); 10 min.
12 March 2025 (Wednesday)	C-03 Chemistry: Chapter-1	HM-08 H.Math: Chapter-3	Daily Live Exam [P-02] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [C-02] **MCQ** (10×1=10); 10 min.
13 March 2025 (Thursday)	P-03 Physics: Chapter-1	Z-03 Zoology: Chapter-7	Daily Live Exam [C-03] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-08] **MCQ** (10×1=10); 10 min.
15 March 2025 (Saturday)	P-04 Physics: Chapter-1	HM-02 H.Math: Chapter-1	Daily Live Exam [P-03] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-03] **MCQ** (10×1=10); 10 min.
17 March 2025 (Monday)	Z-04 Zoology: Chapter-7	C-04 Chemistry: Chapter-1	Daily Live Exam [P-04] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-02] **MCQ** (10×1=10); 10 min.
19 March 2025 (Wednesday)	C-05 Chemistry: Chapter-1	HM-09 H.Math: Chapter-3	Daily Live Exam [Z-04] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [C-04] **MCQ** (10×1=10); 10 min.
20 March 2025 (Thursday)	P-05 Physics: Chapter-1	Z-05 Zoology: Chapter-7	Daily Live Exam [C-05] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-09] **MCQ** (10×1=10); 10 min.
21 March 2025 (Friday)	**Chapter-wise Exam [Chemistry 2nd Paper Chapter-01] (Part-01); Lecture C-01 to 05; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
22 March 2025 (Saturday)	P-06 Physics: Chapter-1	HM-03 H.Math: Chapter-1	Daily Live Exam [P-05] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-05] **MCQ** (10×1=10); 10 min.
24 March 2025 (Monday)	Z-06 Zoology: Chapter-7	C-06 Chemistry: Chapter-1	Daily Live Exam [P-06] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-03] **MCQ** (10×1=10); 10 min.
Online classes and exams will be closed from March 25 to April 4 on the occasion of Independence Day, Shab-e-Qadr and Eid-ul-Fitr.			
Date & Day	**Live Class: 1**	**Live Class: 2**	**Live Exam**
	2:30pm	**6:30pm**	**Online: From 8:00am to 11:55pm**
05 April 2025 (Saturday)	B-01 Botany: Chapter-7	HM-04 H.Math: Chapter-1	Daily Live Exam [Z-06] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [C-06] **MCQ** (10×1=10); 10 min.
06 April 2025 (Sunday)	**Chapter-wise Exam [Zoology Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
07 April 2025 (Monday)	C-07 Chemistry: Chapter-1	B-02 Botany: Chapter-7	Daily Live Exam [B-01] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-04] **MCQ** (10×1=10); 10 min.
09 April 2025 (Wednesday)	P-07 Physics: Chapter-1	C-08 Chemistry: Chapter-1	Daily Live Exam [C-07] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-02] **MCQ** (10×1=10); 10 min.
10 April 2025 (Thursday)	**Biology Problem Solving Class (Evening- 6:30 PM)**		
11 April 2025 (Friday)	P-08 Physics: Chapter-1	HM-05 H.Math: Chapter-2	Daily Live Exam [P-07] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [C-08] **MCQ** (10×1=10); 10 min.
12 April 2025 (Saturday)	C-09 Chemistry: Chapter-1	HM-06 H.Math: Chapter-2	Daily Live Exam [P-08] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-05] **MCQ** (10×1=10); 10 min.
13 April 2025 (Sunday)	**Chapter-wise Exam [H.Math 2nd Paper Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
14 April 2025 (Monday)	C-10 Chemistry: Chapter-1	B-03 Botany: Chapter-7	Daily Live Exam [C-09] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-06] **MCQ** (10×1=10); 10 min.
16 April 2025 (Wednesday)	P-09 Physics: Chapter-2	B-04 Botany: Chapter-7	Daily Live Exam [C-10] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-03] **MCQ** (10×1=10); 10 min.
17 April 2025 (Thursday)	**H.Math Problem Solving Class (Evening- 6:30 PM)**		
18 April 2025 (Friday)	P-10 Physics: Chapter-2	HM-10 H.Math: Chapter-3	Daily Live Exam [P-09] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-04] **MCQ** (10×1=10); 10 min.
19 April 2025 (Saturday)	C-11 Chemistry: Chapter-2	HM-11 H.Math: Chapter-3	Daily Live Exam [P-10] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-10] **MCQ** (10×1=10); 10 min.
20 April 2025 (Sunday)	**Chapter-wise Exam [Physics 2nd Paper Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		

21 April 2025 (Monday)	C-12 Chemistry: Chapter-2	Z-07 Zoology: Chapter-8	Daily Live Exam [C-11] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-11] **MCQ** (10×1=10); 10 min.
23 April 2025 (Wednesday)	P-11 Physics: Chapter-2	Z-08 Zoology: Chapter-8	Daily Live Exam [C-12] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-07] **MCQ** (10×1=10); 10 min.
24 April 2025 (Thursday)	**Guideline Seminar**		
25 April 2025 (Friday)	P-12 Physics: Chapter-2	HM-12 H.Math: Chapter-3	Daily Live Exam [P-11] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-08] **MCQ** (10×1=10); 10 min.
26 April 2025 (Saturday)	C-13 Chemistry: Chapter-2	HM-13 H.Math: Chapter-3	Daily Live Exam [P-12] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-12] **MCQ** (10×1=10); 10 min.
27 April 2025 (Sunday)	**Chapter-wise Exam [H.Math 2nd Paper Chapter-02] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
28 April 2025 (Monday)	C-14 Chemistry: Chapter-2	Z-09 Zoology: Chapter-8	Daily Live Exam [C-13] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-13] **MCQ** (10×1=10); 10 min.
30 April 2025 (Wednesday)	P-13 Physics: Chapter-2	Z-10 Zoology: Chapter-8	Daily Live Exam [C-14] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-09] **MCQ** (10×1=10); 10 min.
01 May 2025 (Thursday)	**Physics Problem Solving Class (Evening- 6:30 PM)**		
02 May 2025 (Friday)	P-14 Physics: Chapter-2	HM-14 H.Math: Chapter-3	Daily Live Exam [P-13] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-10] **MCQ** (10×1=10); 10 min.
03 May 2025 (Saturday)	C-15 Chemistry: Chapter-2	HM-15 H.Math: Chapter-4	Daily Live Exam [P-14] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-14] **MCQ** (10×1=10); 10 min.
04 May 2025 (Sunday)	**Chapter-wise Exam [Chemistry 2nd Paper Chapter-01] (Part-02); Lecture C-06 to 10; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
05 May 2025 (Monday)	C-16 Chemistry: Chapter-2	Z-11 Zoology: Chapter-8	Daily Live Exam [C-15] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-15] **MCQ** (10×1=10); 10 min.
07 May 2025 (Wednesday)	P-15 Physics: Chapter-2	Z-12 Zoology: Chapter-8	Daily Live Exam [C-16] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-11] **MCQ** (10×1=10); 10 min.
08 May 2025 (Thursday)	**Chemistry Problem Solving Class (Evening- 6:30 PM)**		
09 May 2025 (Friday)	P-16 Physics: Chapter-2	HM-16 H.Math: Chapter-4	Daily Live Exam [P-15] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [Z-12] **MCQ** (10×1=10); 10 min.
10 May 2025 (Saturday)	C-17 Chemistry: Chapter-2	HM-17 H.Math: Chapter-4	Daily Live Exam [P-16] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-16] **MCQ** (10×1=10); 10 min.
11 May 2025 (Sunday)	**Chapter-wise Exam [Botany Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
12 May 2025 (Monday)	C-18 Chemistry: Chapter-2	B-05 Botany: Chapter-8	Daily Live Exam [C-17] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-17] **MCQ** (10×1=10); 10 min.
14 May 2025 (Wednesday)	P-17 Physics: Chapter-2	B-06 Botany: Chapter-8	Daily Live Exam [C-18] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-05] **MCQ** (10×1=10); 10 min.
15 May 2025 (Thursday)	**Biology Problem Solving Class (Evening- 6:30 PM)**		
16 May 2025 (Friday)	P-18 Physics: Chapter-2	HM-18 H.Math: Chapter-4	Daily Live Exam [P-17] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-06] **MCQ** (10×1=10); 10 min.
17 May 2025 (Saturday)	C-19 Chemistry: Chapter-2	HM-19 H.Math: Chapter-4	Daily Live Exam [P-18] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-18] **MCQ** (10×1=10); 10 min.
18 May 2025 (Sunday)	**Chapter-wise Exam [H.Math 2nd Paper Chapter-03] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
19 May 2025 (Monday)	C-20 Chemistry: Chapter-2	B-07 Botany: Chapter-8	Daily Live Exam [C-19] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-19] **MCQ** (10×1=10); 10 min.
21 May 2025 (Wednesday)	P-19 Physics: Chapter-3	B-08 Botany: Chapter-8	Daily Live Exam [C-20] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-07] **MCQ** (10×1=10); 10 min.
22 May 2025 (Thursday)	**H.Math Problem Solving Class (Evening- 6:30 PM)**		
23 May 2025 (Friday)	P-20 Physics: Chapter-3	HM-20 H.Math: Chapter-4	Daily Live Exam [P-19] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [B-08] **MCQ** (10×1=10); 10 min.
24 May 2025 (Saturday)	C-21 Chemistry: Chapter-2	HM-21 H.Math: Chapter-4	Daily Live Exam [P-20] **MCQ** (10×1=10); 10 min.
			Daily Live Exam [HM-20] **MCQ** (10×1=10); 10 min.
25 May 2025 (Sunday)	**Chapter-wise Exam [Zoology Chapter-08] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**		
The next class and exam routine (Part-02) will be published...			

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 8:00am to 4:00pm**).
- To get updates quickly, join our Facebook group (**HSC & Admission উদ্ভাস-উন্মেষ**).

HSC 2nd Year Academic Program Pioneer Batch (Class and Exam Syllabus-1)

Physics 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-1 Thermodynamics	P-01	Principles of measurement of temperature, Thermal Equilibrium, Zero'th law of Thermodynamics, Measurement of Temperature, Method of two points, relation between various scales, Faulty thermometer, One point method.
	P-02	Thermal System, Thermal quantities, Thermal Processes, Heat, Work done and Internal Energy, First law of thermodynamics and general mathematical problems.
	P-03	CQ and Admission Strandard questions on First law of thermodynamics, Molar Heat capacity, Thermal function of static and path, Isobaric Process, Isochoric Process.
	P-04	Isothermal Process, Adiabetic Process, General mathematical problems on Isothermal and Adiabetic process.
	P-05	CQ and Admission standard mathematical problems on Isothermal and Adiabetic process, Concept of Second law of thermodynamics, Thermal Engine, Efficiency of thermal engines, Reversible and Irreversible process, Factors of Irreversible process.
	P-06	Carnot Cycle, Effeciency of Carnot engine and general mathematical problem.
	P-07	CQ & Admission Standard mathematical problems on Engine, Refrigerator, Efficiency coefficient of refrigerator, Refrigeration cycle of Carnot, Mechanism of refrigerator, Entropy, Entropy in reversible and irreversible process, Change of Entropy for the change of physical state.
	P-08	Change of entropy in various process, Entropy and disorder, Thermal death of the universe.
Chapter-2 Static Electricity	P-09	Concept of Charge, Nature of charge, Quantization of charge, Conservation of charge, Surface Charge density, Coulomb's Law, Vector format of Coulomb's Law, Limitations of Coulombs\'s Law.
	P-10	Electric Field on a point for point charge, Law of superposition of electricity intensity, Field line, Uniform electric field, Electric field intensity, General Mathematical problems for Electric intensity.
	P-11	CQ and Admission standard mathematical problem for Electric force and field intensity.
	P-12	Electric Potential, Equations of electric potential, Potential Difference, Relation of potential difference with intensity, Flow of charge.
	P-13	CQ and Admission standard Mathematical Problems for Potential, Electric potential and intensity of a charged conductor sphere, Plane density and electric intensity.
	P-14	Dipole moment, Potential and intensity for a dipole.
	P-15	Insulator and dielectric, Capacitor and Capacitance, Spherical and Parallel plate capacitor, Connection of capacitors, energy stored in capacitor, energy stored in a capacitor, capacitor related general mathematical problem.
	P-16	CQ and Admission standard Mathematical Problems related to capacitor, Use of capacitors.
	P-17	Torque of a dipole in uniform electric field, Work done by rotation of dipole, Potential energy of a dipole, Gauss' Theorem, Electric flux, Electric flux in a closed surface, Gauss' law from Coulomb's law.
	P-18	Use of Gauss's theorem, Electric field for charged conductor sphere, Electric field for charged insulator sphere, Electric field for line of charges, Electric field for charged conductor plate, Electric field for charged conductor parallel plates.
Chapter-3 Current Electricity	P-19	Current flow, Direction of current flow, Drifting velocity of electron, Current density, Ohm's Law, Resistance, Conductivity, Effect of temperature on resistance, Conductivity coefficient, Electric cell, Electromotive force of a cell, Internal resistance of a cell.
	P-20	Electric Circuit, Resistance combination, Series combination, Parallel combination, Equivalent resistance, Work done by electricity and electric force, Joule's thermal law.

Chemistry 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-1 Environmental Chemistry	C-01	Gas, Components of atmosphere, Atmospheric temperature, Effect of pressure and density, Cyclone and tidal bore
	C-02	Boyle's law, Charle's law, Avogadro's law, Gay-Lussac's law, related math
	C-03	Combined law, Ideal gas equation (PV = nRT), Explanation of R, related math
	C-04	Dalton's law of partial pressure, Graham's law of diffusion.
	C-05	Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy.
	C-06	Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amagat's curve, Vander Walls equation.
	C-07	Gas cylinderisation, Reactions occurred during lightning, Fixation of N_2 in soil.
	C-08	Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O_3 layer, Damage of O_3 layer.
	C-09	Concept related to acid base- Acid base theory, Arrhenius concept, Bronsted-Lowry concept (Theory, conjugate), Luis theory, Acid rain, Cause of acid rain, Effect of acid rain, Prevention of acid rain.
	C-10	Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS, Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution.
Chapter-2 Organic Chemistry	C-11	Introduction and Classification of Organic Chemistry- Introduction to organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon, Classification of organic compounds, Homologous series, Functional group.
	C-12	Nomenclature of Organic Compounds- (Tribal system, derived system, IUPAC system)
	C-13	Isomerism- Introduction, Classification, Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism Functional group isomerism, Metamerism, Tautomerism),
	C-14	Geometric isomerism (cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism)
	C-15	Stereo Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture)
	C-16	Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophile, Nucleophile, Carbocation, Carbanion.
	C-17	Aliphatic hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane)
	C-18	Unsaturated hydrocarbon (Alkene and everything of alkene)
	C-19	Unsaturated hydrocarbon (Alkyne and everything of alkyne)
	C-20	Benzene and Its Discussion, Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.
	C-21	Preparation and technique of benzene reaction, Homologous of benzene.

H.Math 2nd Paper Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-1 Real number and inequality	HM-01	Exercise -1.1; Classification of Real Numbers, Sets and subsets of real numbers, Geometrical Representation, Axioms of real number, Concept of inequality & Axioms related to the inequality of real numbers.
	HM-02	Exercise -1.1; Interval, Absolute value, Solution of inequalities involving absolute value, Proofs involving absolute value.
	HM-03	Exercise - 1.1; Completeness property of real numbers, bounded above sets, bounded below sets (Supremum & Infimum), Exercise 1.2; Solution of inequalities with one variable (linear and quadratic).
	HM-04	Exercise -1.2; Solving inequalities in one variable (polynomials), Adding inequalities in two variables, and solving with the help of graphs.
Chapter-2 Linear Programming	HM-05	Exercise -2; Graphing from exponential inequalities, Solution region, General problems with bounded solution region.
	HM-06	Exercise -2; Practical problems with closed solution regions, Open solution regions, Models, Benefits and Uses of linear programming.
Chapter-3 Complex numbers	HM-07	Exercise - 3; Concept and significance of i, powers and series of i, rotation through i.
	HM-08	Exercise-3; Real axis and imaginary axis, Introduction to complex numbers, Argand diagram of complex numbers, Modulus and argument of complex numbers.
	HM-09	Exercise-3; Polar form of a complex numbers. Algebraic calculations of complex numbers, addition, subtraction, multiplication, and division of complex numbers, conjugate complex numbers.
	HM-10	Exercise-3; Properties of complex numbers, expression in the form A+iB.
	HM-11	Exercise-3; Square root and fourth root of complex numbers.
	HM-12	Exercise-3; Cube root and sixth root of complex numbers. Series related to ω, determining the value of expressions related to ω, and factorization.
	HM-13	Exercise - 3; Mathematical Significance of $\|z_1 - z_2\|$, Geometrical Applications of Complex Numbers (locus).
	HM-14	Exercise - 3; Conditional Proofs and Value Determination.
Chapter-4 Polynomials and Polynomial equations	HM-15	Exercise-4; Polynomial functions and polynomial equations, roots of polynomial equations, some theorems related to polynomials, solution of quadratic equations using factors.
	HM-16	Exercise-4; General solution of quadratic equations, discriminant, determining the nature of roots of quadratic equations
	HM-17	Exercise-4; Characteristics of roots under coefficient conditions, root-coefficient relationship of quadratic equations
	HM-18	Exercise - 4; Polynomial Equations with Real Coefficients, Polynomial Equations with Rational Coefficients, Formation of Equations from Roots.
	HM-19	Exercise - 4; Determining the x-intercept of a Polynomial Function, Maximum and Minimum Values of Quadratic Polynomial Functions, Determining the axis of symmetry of quadratic functions. Drawing graphs of any quadratic function.
	HM-20	Exercise - 4; Graph of $y = f(x) = ax^n + b$[n Even & Odd], Common Roots, Relation Between Roots & Coefficients of a Cubic Equation.
	HM-21	Exercise-4; Relationship of coefficients with the roots of polynomial equations and formation of higher-degree equations, equations with symmetric roots

Botany Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-07 Gymnosperms and Angiosperms	B-01	Gymnosperms (Introduction, characteristics), Cycas (Characteristics, Structure, Reproduction)
	B-02	Angiosperms (Introduction, characteristics), Differences between Gymnosperm and angiosperm, Introduction to angiosperm families, Characteristics, Root, Stem, Leaf
	B-03	Inflorescence, Aestivation, Placentation, Fruits, Floral Formula, Floral Diagram
	B-04	Poaceae Family, Malvaceae Family, Differences between Poaceae and Malvaceae family, Differences between Monocot plant and dicot plant
Chapter-08 Tissue and Tissue System	B-05	Meristematic Tissue, Types of meristematic tissue, Differences between permanent and meristematic tissue
	B-06	Epidermal tissue system, stomata, hydathode
	B-07	Ground tissue system, Vascular tissue system
	B-08	Internal structure of monocot root and monocot stem, Primary internal structure of dicot stem

Zoology Reference Book: মাতালাল TEXT		
Chapter	**Lecture**	**Lecture-based discussion**
Chapter-07 Human Physiology: Locomotion and body movement	Z-01	Skeletal system (classification, functions, components, parts), bones of the adult human skeleton, axial skeleton (skull)
	Z-02	Axial skeleton (vertebral column, ribcage)
	Z-03	Appendicular skeleton
	Z-04	Bone, Haversian system, cartilage, types of cartilage
	Z-05	Muscle tissue, types of muscles, muscles can pull but cannot push, functions of skeleton and the 'rods and lever system'
	Z-06	Bone and muscle coordination in knee movement, bone fracture and first aid, joint injuries and first aid.
Chapter-8 Human Physiology: Coordination and Control	Z-07	Nervous coordination, function of the nervous system, neurons, types of neurons, neuroglia, neurotransmitters, synapses, transmission of stimuli through synapses.
	Z-08	Central nervous system, brain, forebrain, midbrain, hindbrain.
	Z-09	Brain ventricles, cerebrospinal fluid, human cranial nerves (names, origins, branches, distribution, nature and functions), spinal cord.
	Z-10	Human sensory organs, eye-organ of vision, eyeball, accessory parts of the eye, image formation and mechanism of vision, accomodation, binocular vision.
	Z-11	Ear - organ of hearing and balance (external ear, middle ear, inner ear), role of the ear in hearing and balance.
	Z-12	Chemical coordination, endocrine system, location of endocrine glands, hormones secreted and their functions, effects of hormones on body growth, effects of hormones on physiological functions of the body, effects of hormones on behavior change, consequences of uncontrolled hormone use.