HSC 1st Year Academic Program
Pioneer Batch

Online Batch Time

English Version – 3:00pm

Class & Exam Routine (Part-04)

Online Exam Time

From 9:00am to 11:00pm

Date and time	Live Class	Live Exam
19 November 2024 (Tuesday)	**Live Class (HM-31+32)** Math: Chapter – 05	Daily Live Exam (B-25+26) **MCQ** (10×1=10); 10 min
20 November 2024 (Wednesday)	**Live Class (P-43+44)** Physics: Chapter – 07	Daily Live Exam (HM-31+32) **MCQ** (10×1=10); 10 min
21 November 2024 (Thursday)	**Live Class (B-27+28)** Botany: Chapter - 05	Daily Live Exam (P-43+44) **MCQ** (10×1=10); 10 min
24 November 2024 (Sunday)	**Live Class (C-53+54)** Chemistry: Chapter – 05	Daily Live Exam (B-27+28) **MCQ** (10×1=10); 10 min
25 November 2024 (Monday)	Chapter-wise Exam [H.Math Chapter-04] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
26 November 2024 (Tuesday)	**Live Class (HM-33+34)** Math: Chapter – 05	Daily Live Exam (C-53+54) **MCQ** (10×1=10); 10 min
27 November 2024 (Wednesday)	**Live Class (P-45+46)** Physics: Chapter – 07	Daily Live Exam (HM-33+34) **MCQ** (10×1=10); 10 min
28 November 2024 (Thursday)	**Live Class (Z-29+30)** Zoology: Chapter – 06	Daily Live Exam (P-45+46) **MCQ** (10×1=10); 10 min
01 December 2024 (Sunday)	**Live Class (P-47+48)** Physics: Chapter – 07	Daily Live Exam (Z-29+30) **MCQ** (10×1=10); 10 min
02 December 2024 (Monday)	Chapter-wise Exam [Botany Chapter-05] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
03 December 2024 (Tuesday)	**Live Class (HM-35+36)** Math: Chapter – 05	Daily Live Exam (P-47+48) **MCQ** (10×1=10); 10 min
04 December 2024 (Wednesday)	**Live Class (HM-73+74)** Math: Chapter – 10	Daily Live Exam (HM-35+36) **MCQ** (10×1=10); 10 min
05 December 2024 (Thursday)	**Live Class (B-19+20)** Botany: Chapter - 04	Daily Live Exam (HM-73+74) **MCQ** (10×1=10); 10 min
08 December 2024 (Sunday)	**Live Class (C-55+56)** Chemistry: Chapter – 05	Daily Live Exam (B-19+20) **MCQ** (10×1=10); 10 min
09 December 2024 (Monday)	Chapter-wise Exam [Zoology Chapter-06] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
10 December 2024 (Tuesday)	**Live Class (HM-75+76)** Math: Chapter – 10	Daily Live Exam (C-55+56) **MCQ** (10×1=10); 10 min
11 December 2024 (Wednesday)	**Live Class (P-49+50)** Physics: Chapter – 08	Daily Live Exam (HM-75+76) **MCQ** (10×1=10); 10 min
12 December 2024 (Thursday)	**Live Class (B-21+22)** Botany: Chapter - 04	Daily Live Exam (P-49+50) **MCQ** (10×1=10); 10 min
15 December 2024 (Sunday)	**Live Class (HM-77+78)** Math: Chapter – 10	Daily Live Exam (B-21+22) **MCQ** (10×1=10); 10 min
Online class and exams will be closed on December 16 on the occasion of Great Victory Day.		
17 December 2024 (Tuesday)	**Live Class (HM-79+80)** Math: Chapter – 10	Daily Live Exam (HM-77+78) **MCQ** (10×1=10); 10 min
18 December 2024 (Wednesday)	**Live Class (P-51+52)** Physics: Chapter – 08	Daily Live Exam (HM-79+80) **MCQ** (10×1=10); 10 min
19 December 2024 (Thursday)	**Live Class (B-23+24)** Botany: Chapter - 04	Daily Live Exam (P-51+52) **MCQ** (10×1=10); 10 min
22 December 2024 (Sunday)	**Live Class (HM-81+82)** Math: Chapter – 10	Daily Live Exam (B-23+24) **MCQ** (10×1=10); 10 min
23 December 2024 (Monday)	Chapter-wise Exam [H.Math Chapter-05] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
24 December 2024 (Tuesday)	**Live Class (B-29+30)** Botany: Chapter - 06	Daily Live Exam (HM-81+82) **MCQ** (10×1=10); 10 min
25 December 2024 (Wednesday)	**Live Class (P-53+54)** Physics: Chapter – 08 ,09	Daily Live Exam (B-29+30) **MCQ** (10×1=10); 10 min
26 December 2024 (Thursday)	**Live Class (B-31+32)** Botany: Chapter - 07	Daily Live Exam (P-53+54) **MCQ** (10×1=10); 10 min
29 December 2024 (Sunday)	**Live Class (P-55+56)** Physics: Chapter – 09	Daily Live Exam (B-31+32) **MCQ** (10×1=10); 10 min
30 December 2024 (Monday)	Chapter-wise Exam [Physics Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
31 December 2024 (Tuesday)	**Live Class (HM-83+84)** Math: Chapter – 10	Daily Live Exam (P-55+56) **MCQ** (10×1=10); 10 min
01 January 2025 (Wednesday)	**Live Class (HM-07+08)** Math: Chapter – 02	Daily Live Exam (HM-83+84) **MCQ** (10×1=10); 10 min
02 January 2025 (Thursday)	**Live Class (B-33+34)** Botany: Chapter - 07	Daily Live Exam (HM-07+08) **MCQ** (10×1=10); 10 min
05 January 2025 (Sunday)	**Live Class (P-57+58)** Physics: Chapter – 09	Daily Live Exam (B-33+34) **MCQ** (10×1=10); 10 min
06 January 2025 (Monday)	Chapter-wise Exam [Chemistry Chapter-05] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
07 January 2025 (Tuesday)	**Live Class (HM-09+10)** Math: Chapter – 02	Daily Live Exam (P-57+58) **MCQ** (10×1=10); 10 min
08 January 2025 (Wednesday)	---	Daily Live Exam (HM-09+10) **MCQ** (10×1=10); 10 min

10 January 2025 (Friday)	**Chapter-wise Exam [H.Math 1st Paper Chapter-10] (Part-01); Lecture HM-73 to 78 ; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
12 January 2025 (Sunday)	**Chapter-wise Exam [Physics Chapter-08] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
14 January 2025 (Tuesday)	**Chapter-wise Exam [Botany Chapter-04] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min**
16 January 2025 (Thursday)	**Chapter-wise Exam [Botany Chapter-06] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min**
18 January 2025 (Saturday)	**Chapter-wise Exam [H.Math 1st Paper Chapter-10] (Part-02); Lecture HM-79 to 84 ; (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
20 January 2025 (Monday)	**Chapter-wise Exam [Physics Chapter-09] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**
22 January 2025 (Wednesday)	**Chapter-wise Exam [Botany Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min**
24 January 2025 (Friday)	**Chapter-wise Exam [H.Math Chapter-02] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.**

Paper Final Exam

Date and time	Subjects and Syllabus	Exam name and time	Set
26 January 2025 (Saturday)	Physics 1st Paper (Complete Chapter)	**Paper Final Exam Physics.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.	**Board standard Creative 1 set & Multiple choice 1 set**
28 January 2025 (Monday)	Chemistry 1st Paper (Complete Chapter)	**Paper Final Exam Chemistry.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.	
28 January 2025 (Wednesday)	Higher Mathematics 1st Paper (Complete Chapter)	**Paper Final Exam H.Math.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.	
31 January 2025 (Friday)	Biology 1st paper; Chapter- 1, 2, 3, 4, 5, 6, 7	**Paper Final Exam Biology.** **CQ** (5×10=50); 2:30 Hrs. & **MCQ** (25×1=25); 25 min.	
	Biology 2nd paper; Chapter- 1, 2, 3, 4, 5, 6		

HSC 1st Year Academic Program Pioneer Batch Part-04 Syllabus-2024 (Online)

Physics 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	**Lecture**	**Syllabus**
Chapter-7 Structural Properties of Matter	P-43	Inter-molecular force, Molecular force in solid, liquid and gaseous substance, Bonds, Elasticity and its classification, Attraction force and repulsion force and potential energy, Graph of force.
	P-44	Graph of Potential Energy, Summary of the graph, Quantities of elasticity, Stress and strain in various objects.
	P-45	Types of strain, Types of stress, Hooke's law, Modulus of elasticity, relation between various modulus
	P-46	Elastic potential energy, Poisson's ratio.
	P-47	Flow of fluids, turbulent flow, Viscosity, Friction and viscosity, Effect of pressure and temperature on viscosity modulus, Reynold's Number, Stokes' law.
	P-48	Terminal Velocity, Surface tension, Effects of various factors on surface tension, capillarity.
Chapter-8 Periodic Motion	P-49	Periodicity, Spatial periodicity, Temporal Periodicity, features of periodic motion, Oscillation, Simple Harmonic Motion, Ideal spring, Spring constant, Motion of an object connected to ideal spring, Conditions of simple harmonic motion, Differential equation of simple harmonic motion, Solution of the differential equation of simple harmonic motion.
	P-50	Quantities of simple harmonic motion, Displacement, velocity and acceleration in simple harmonic motion.
	P-51	Graph of simple harmonic motion, Relation between circular motion and simple harmonic motion.
	P-52	Energy of simple harmonic motion, Potential energy in spring, change of energy with time, Graph, Change of energy with displacement, graph.
	P-53	Application of simple harmonic motion, Motion in vertical plane, Motion of compound spring, Motion of simple pendulum, Explanation of the laws of simple pendulum, Application of simple pendulum.
Chapter-9 Wave	P-54	Waves, Mechanical Waves, Origin of different Mechanical Waves, Transverse Waves, Longitudinal Wave, Electromagnetic Wave, Waves and Energy, Expressions and Equations Related to Wave, Change of Medium
	P-55	Progressive Waves, Phase difference and Path difference of Progressive Waves.
	P-56	Superposition of Waves, Stationary Wave.
	P-57	Beat.
	P-58	Free and Forced Vibration, Resonance, Intensity of Wave, Standard Intensity and Intensity Level, Harmonics and Musical Scales, Musical Sound, Tone and Note, Vibration of String, Vibration of Air Column.

Chemistry 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	**Lecture**	**Syllabus**

Chapter-5 Vocational Chemistry	C-53	Food Safety- (Chemistry in enhancing food production, Importance of various elements as fertilizers, Role of chemistry in food preservation, Drying method of foodstuff, Cooling method of foodstuff).
	C-54	Food Preservatives- (Natural Food Preservatives, Artificial Food Preservatives, Anti-Microbial Agents, Antioxidants, Vinegar).
	C-55	Food Fractionation- (Stages of Fractionation Fruit Fractionation, Vegetable Fractionation, Fish Fractionation).
	C-56	Mixture- (Colloid, Colloid filtration, Suspension, Preparation of Butter from Milk), TOILETRIES & PERFUMERIES- Rose water preparations, hair oil preparations, telcom powder preparations, vanishing cream preparations, cold cream preparations, lipstick preparations, after shave preparations, henna extract), Cleaners and detergents- (glass cleaner, toilet cleaner).

Higher Mathematics 1st Paper (Reference Book: UDVASH Parallel Text)		
Chapter	**Lecture**	**Syllabus**
Chapter-5 Permutation and Combinations	HM-31	Exercise - 5.1; Addition & multiplication rules of counting Permutation, Factorial & use of nP_r formula, permutation of identical objects, Total permutation of arrangement in n numbers of colors letters(items) taken all at a time, Permutation in case of repetition.
	HM-32	Exercise - 5.1; Keeping some letters (items) together or separate, Not keeping some letters (items) in consecutive position, the position of the letter (or object) is specific, related to rearrangement, Some specific letters (or items) will not change their order.
	HM-33	Exercise - 5.1; Changing of relative positions of some specific letters (or items), Permutation of specific letters from words with different letters, Number formation of specific digits, Formation of odd numbers, Formation of even numbers, Smallest and greatest number from a specific number.
	HM-34	Exercise - 5.1; Cyclic permutation, Exercise - 5.2; Combination, Difference between Permutation and Combinations, Supplementary Combination, Problems related to the use of nC_r formula, Selection Related, Conditional combination – accepts or excludes a specified number of objects.
	HM-35	Exercise - 5.2; Word formation through combination, forming a team or committee, Determine the number of factors, Construct straight lines, triangles, polygons, diagonals and planes from points.
	HM-36	Exercise - 5.2; Determine the intersection point, Division into teams or groups, Problem related to division into teams or groups, Divisibility.
Chapter-2 Vector	HM-07	Exercise – 2; Quantity, Types of vector quantities or different types of vectors, Addition of Vectors, Vector Subtraction, Internal and external division of a line segment between two points, Geometric proofs using vector addition-subtraction concepts, Components of vectors, Projection & Component, Representation of a vector in two-dimensional cartesian coordinate, Representation of a Vector in Three Dimensional Cartesian Co-ordinariates.
	HM-08	Exercise – 2; Problems related to addition, subtraction and quantification of vectors, Determination of unit vector towards, to the opposite or to the parallel of a vector, Multiplication of Vectors, Multiplication of vectors by a scalar quantity, Dot Product of Vectors (scalar multiplication).
	HM-09	Scalar Product of Vectors and Problems Related to Two Perpendicular Vectors, Problems Related to Another Vector in The Same Plane As Two Other Vectors, Problems Related To Determination Of Included Angle Between Two Vectors, Determination Of Perpendicular Projection and Component of Vectors, Vector/cross multiplication/product, Problems related to Vector Cross Product and Two Parallel Vectors.
	HM-10	Exercise – 2; Unit Vector Perpendicular to The Plain Formed by Two Vectors, some information related to area, Problems Related to Determination of the Area of Polygons Using Vectors, the volume of the solid and conditions for three vectors to be coplanar, Vector of Straight line and Cartesian Equations in a Three-Dimensional Co-ordinate System, Vector and Cartesian Equation of a Straight Line Passing Through Two Fixed Points.
Chapter-10 Integration	HM-73	Exercise – 10.1; Primary discussion of Integration, Some Properties of Integration.
	HM-74	Exercise – 10.1; Integration using general formulae, Integration after simplification, Exercise – 10.2; Method of Substitution, $\int (ax+b)^n dx, \int sin^n x\, dx, \int cos^n x\, dx$.
	HM-75	Exercise – 10.2; In the form of $\int \sin Ax \cos Bx\, dx, \int \sin Ax \sin Bx\, dx, \int \cos Ax \cos Bx\, dx, \int sin^m x \cos^n x\, dx$, , In the form of $\int \frac{dx}{1+\sin ax}, \int \frac{dx}{1+\cos ax}$.
	HM-76	Exercise – 10.3; Ideal Integral, In the form of $\int f(x).f'(x)dx, \int f(g(x))\ g'(x)dx$, In the form of $\int \frac{f'(x)}{f(x)}dx = \ln|f(x)| + c, \int \frac{f'(x)}{\sqrt{f(x)}} = 2\sqrt{f(x)} + c$.
	HM-77	Exercise – 10.3; Fractions of Quadratic Equation and Irrational forms, In the form of $\int \frac{ax+b}{cx+d}dx, \int \frac{ax+b}{\sqrt{cx+d}}dx, \int \frac{ax+b}{(cx+d)^n}dx$, Related to $a^2 + x^2, a^2 - x^2, x^2 - a^2$, In the form of $\int \frac{dx}{a\cos^2 x+b\sin^2 x+c}; \int \frac{dx}{a\cos^2 x+c}; \int \frac{dx}{a\cos^2 x+b\sin^2 x}; \int \frac{dx}{a\cos^2 x+b\sin^2 x}$.
	HM-78	Exercise – 10.3; $\int \frac{x^2\, dx}{ax^4+bx^2+c}; \int \sqrt{\frac{a+x}{a-x}}dx, \int \frac{\sqrt{ax+b}}{\sqrt{cx+d}}dx$ form, $\int \frac{a\cos x+b\sin x}{c\cos x+d\sin x}dx$; form, $\int \frac{dx}{a+be^{mx}}, \int \frac{dx}{a+be^{-mx}}$ and $\int \frac{dx}{ae^{mx}+be^{-mx}}$ form, $\int \frac{e^{mx}+e^{nx}}{e^{px}+e^{qx}}dx$ where, $m - n = p - q, \int \frac{dx}{g(x)\sqrt{\phi(x)}};$ where $g(x)$ & $\phi(x)$ are polynomial function
	HM-79	Exercise – 10.4; Integration by Parts, Use of LIATE, $\int sec^n x\, dx; \int cosec^n x\, dx, \int e^{ax}\{a\ f(x) + f'(x)\}dx$ form.
	HM-80	Exercise – 10.5; Integration with help of Partial Fractions, $\frac{x}{(x-1)(x-2)}, \frac{x}{(x-1)^2(x-2)}, \frac{x}{(x-1)(x^2+1)}$ form, $\frac{x^3}{(x-1)(x-2)(x-3)}$ form.
	HM-81	Exercise – 10.6; Concept of Definite Integral, Definite Integral, Method of Substitution for Definite Integrals.
	HM-82	Exercise – 10.6; Special Characteristics of Definite Integral, Net Marked Area, Definite Integral of Even & Odd Functions.

| | HM-83 | Exercise – 10.7; Area by Using Integration, The Area of the Region Enclosed by the Curve y = f(x) and x Axis within Certain Limits, The Area of the Region Enclosed by the Curve x = f(y) and y Axis within Certain Limits, The Area of the Region Enclosed by Two Curves and Two Straight Lines Parallel to y-Axis (Determination of Area in Respect of x-Axis), The Area of the Region Enclosed by Two Curves and Two Straight Lines Parallel to x-Axis (Determination of Area in Respect of y-Axis), Difference Between Integration and Area. |
| | HM-84 | Exercise – 10.7; Symmetry, Problems Related to Determining Area. |

Biology 1st paper (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-5 Algae and Fungi	B-27	Fungi (Characteristics, Physical Structure, Cellular Structure), Reproduction of Fungi (Vegetative Reproduction, Asexual Reproduction, Sexual Reproduction), Importance of Fungi (Beneficial and Harmful Effects).
	B-28	Agaricus (Habitat, Physical Structure), Economic Importance of Agaricus, Fungal Diseases, Lichen (Habitat, Characteristics, Structure, Classification), Importance of Lichen.
Chapter-4 Microbes	B-19	Viruses: Contribution of scientists to the discovery of viruses, structure of viruses, types of viruses, parasitism of viruses, emerging viruses, subviral entities, T_2 bacteriophage, corona virus causing COVID-19.
	B-20	Life cycle of viruses, importance of viruses, viral diseases at a glance, description of some viral diseases.
	B-21	Bacteria: Characteristics of bacteria: Distribution and habitat of bacteria: Types of bacteria, structure of ideal bacteria.
	B-22	Reproduction of bacteria, importance of bacteria, description of some bacterial diseases.
	B-23	Malaria: Malaria infection, treatment, prevention and control of malaria, life cycle of malaria parasite in human body.
	B-24	Life cycle of malaria parasite in mosquito body, alteration of generation of malaria parasite.
Chapter- 7 Gymnosperm and Angiosp	B-31	Gymnosperm (Introduction, Characteristics), Cycas (Characteristics, Structure, Reproduction).
	B-32	Angiosperm (Introduction, Characteristics), Difference Between Gymnosperms and Angiosperms, Introduction to angiosperms: Habitat, Root, Stem, Leaf, Inflorescence.
	B-33	Aestivation, Placentation, Fruits.
	B-34	Floral formula, floral diagram, Poaceae family, Malvaceae family, differences between Poaceae and Malvaceae families, differences between monocots and dicots.

Biology 1st paper (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter-6 Human Physiology: Wastes and Excretion	Z-29	Different types of waste products of animals, human excretory system, structure and function of kidney, ultrastructure of kidney-nephron, function of nephron.
	Z-30	Physiology of excretion (nitrogenous waste production and urine formation), urine, role of kidney in excretion and osmoregulation, renal failure, dialysis, renal transplantation, hormonal action.

For any information regarding the online program contact the following numbers

Dhaka Branches: Mirpur-01713-236705, Rupnagar-01713-236734, Cantonment-01713-236724, Uttara-01713-236707, Mohammadpur-01713-236701 Science Lab.-01713-236706, Farmgate (Green Road)-01713-236710, Farmgate (Malek Tower)-01713-236711, Shantinagar-01713-236703 Malibagh-01713-236702, Motijheel-01713-236908, Basabo-01713-236722, Banshri-01713-236723, Laxmibazar-01713-236720, Jatrabari-01713-236719 Dania-01713-236718, Savar-01713-236721 Gazipur-01713-236746, Narayanganj-01713-236717, Konapara-01713-236757, Tongi-01713-236759 Bakshibazar-01713-236712, Khilgaon-01713-236768.

Branches outside Dhaka: Mymensingh (Natun Bazar)-01713-236716, Mymensingh (KB)-01713-236769, Kishoreganj-01713-236739 Netrokona- 01713-236767, Jamalpur-01713-236740, Sherpur-01713-236749, Tangail-01713-236737, Sirajganj-01713-236742, Bogura-01713-236727 Gaibandha-01713-236755, Rangpur (Medical Mor)-01713-236726, Rangpur (Khamar Mor)-01713-236783, Kurigram-01713-236753 Lalmonirhat-01713-236777, Saidpur-01713-236741, Dinajpur-01713-236733, Thakurgaon-01713-236748, Panchagarh-01713-236778 Joypurhat-01713-236754, Naogaon-01713-236756, Chapainawabganj-01713-236747, Rajshahi-01713-236713, Natore-01713-236751 Pabna-01713-236736, Kushtia-01713-236735, Meherpur-01313-368670, Chuadanga-01713236764, Jhenaidah-01713-23676, Magura-01713-236752 Jashore-01713-236731, Narail-01713-236788, Khulna- 01713-236715, Satkhira- 01713-236750, Pirajpur-01713-236790, Bhola-01713-236791 Barishal-01713-236730, Patukhali-01713-236784, Shariatpur-01713-236782, Gopalganj-01713-236760, Faridpur-01713-236732 Rajbari-01713-236786Manikganj-01713-236763 Munshiganj-01713-236762, Brahmanbaria- 01713-236743, Narsingdi-01713-236738

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