HSC 1st Year Academic Program

Prime Batch

13 August 2024 (Tuesday)Live class (C-1)14 August 2024 (Wednesday)Live class (Z-0)15 August 2024 (Thursday)Chapter-wise Ex (Pre-Admission I)17 August 2024 (Saturday)Live class (Z-0)18 August 2024 (Sunday)Live class (Z-0)19 August 2024 (Monday)Live class (C-2)20 August 2024 (Tuesday)Live class (B-1)20 August 2024 (Tuesday)Live class (B-1)23 August 2024 (Friday)Live class (B-1)23 August 2024 (Friday)Chapter-wise Ex24 August 2024 (Saturday)Live class (P-1)25 August 2024 (Sunday)Live class (P-1)26 August 2024 (Monday)Live class (P-1)27 August 2024 (Tuesday)Live class (P-1)28 August 2024 (Tuesday)Live class (P-1)29 August 2024 (Tuesday)Live class (P-1)20 August 2024 (Tuesday)Live class (P-1)30 August 2024 (Friday)Live class (P-1)31 August 2024 (Saturday)Live class (P-1)31 August 2024 (Saturday)Live class (P-1)01 September 2024 (Saturday)Live class (P-1)03 September 2024 (Monday)Live class (P-1)03 September 2024 (Monday)Live class (P-1)03 September 2024 (Thursday)Live class (P-1)05 September 2024 (Friday)Live class (P-1)05 September 2024 (Friday)Live class (HM)06 September 2024 (Saturday)Liv	New routine	Online Exam Time From 9:00 am to 11:00 pm	
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D9 September 2024 (Monday) Live class (P-1	m [Chemistry 1st Paper Chapter-02] (F ICQ 10×1=10); Time: 10min.	Part-02); Lecture C-13 to 22; (CQ 2×10=20); Time: 50min &	
	37+38) H.Math: Chapter- 06	Daily Live Exam (HM-05+06) MCQ (10×1=10); 10 min	
IO September 2024 (Tuesday) Live class (C-2	+20) Physics: Chapter- 03	Daily Live Exam (HM-37+38) MCQ (10×1=10); 10 min	
	7+28) Chemistry: Chapter- 03	Daily Live Exam (P-19+20) MCQ (10×1=10); 10 min	
1 September 2024 (Wednesday) Live class (Z-1	+12) Zoology: Chapter- 02	Daily Live Exam (C-27+28) MCQ (10×1=10); 10 min	
2 September 2024 (Thursday) Live class (HM	41+42) H.Math: Chapter- 07	Daily Live Exam (Z-11+12) MCQ (10×1=10); 10 min	
3 September 2024 (Friday) Chapter-wise Ex	m [H.Math 1st Paper Chapter-01] (CQ 2	x×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	

15 September 2024 (Sunday)	Live class (HM-39+40) H.Math: Chapter- 06	Daily Live Exam (HM-41+42) MCQ (10×1=10); 10 min
16 September 2024 (Monday)	Live class (P-21+22) Physics: Chapter- 04	Daily Live Exam (HM-39+40) MCQ (10×1=10); 10 min
17 September 2024 (Tuesday)	Live class (C-29+30) Chemistry: Chapter- 03	Daily Live Exam (P-21+22) MCQ (10×1=10); 10 min
18 September 2024 (Wednesday	Live class (Z-13+14) Zoology: Chapter- 02	Daily Live Exam (C-29+30) MCQ (10×1=10); 10 min
19 September 2024 (Thursday)	Live class (HM-43+44) H.Math: Chapter- 07	Daily Live Exam (Z-13+14) MCQ (10×1=10); 10 min
20 September 2024 (Friday)	Chapter-wise Exam [H.Math 1st Paper Chapter-06] (CC	2 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
22 September 2024 (Sunday)	Live class (HM-53+54) H.Math: Chapter- 08	Daily Live Exam (HM-43+44) MCQ (10×1=10); 10 min
23 September 2024 (Monday)	Live class (P-23+24) Physics: Chapter- 04	Daily Live Exam (HM-53+54) MCQ (10×1=10); 10 min
24 September 2024 (Tuesday)	Live class (C-31+32) Chemistry: Chapter- 03	Daily Live Exam (P-23+24) MCQ (10×1=10); 10 min
25 September 2024 (Wednesday	Live class (B-13+14) Botany: Chapter- 03	Daily Live Exam (C-31+32) MCQ (10×1=10); 10 min
26 September 2024 (Thursday)	Live class (HM-45+46) H.Math: Chapter- 07	Daily Live Exam (B-13+14) MCQ (10×1=10); 10 min
	Chapter-wise Exam [Chemistry 1st Paper Chapter-03]	(Part-01); Lecture C-23 to 30; (CQ 2×10=20); Time: 50min &
27 September 2024 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.	
28 September 2024 (Saturday)	Chapter-wise Exam [Zoology Chapter-02] (CQ 2×10=20)); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
29 September 2024 (Sunday)	Live class (HM-55+56) H.Math: Chapter- 08	Daily Live Exam (HM-45+46) MCQ (10×1=10); 10 min
30 September 2024 (Monday)	Live class (P-25+26) Physics: Chapter- 04	Daily Live Exam (HM-55+56) MCQ (10×1=10); 10 min
01 October 2024 (Tuesday)	Live class (C-33+34) Chemistry: Chapter-03	Daily Live Exam (P-25+26) MCQ (10×1=10); 10 min
02 October 2024 (Wednesday)	Live class (B-15+16) Botany: Chapter- 03	Daily Live Exam (C-33+34) MCQ (10×1=10); 10 min
03 October 2024 (Thursday)	Live class (HM-47+48) H.Math: Chapter- 07	Daily Live Exam (B-15+16) MCQ (10×1=10); 10 min
06 September 2024 (Sunday)	Live class (HM-57 <mark>+58)</mark> H.Math: Chapter- 08	Daily Live Exam (HM-47+48) MCQ (10×1=10); 10 min
07 September 2024 (Monday)	Live class (P-27+28) Physics: Chapter- 04	Daily Live Exam (HM-57+58) MCQ (10×1=10); 10 min
08 October 2024 (Tuesday)	Live class (C-35+36) Chemistry: Chapter-03	Daily Live Exam (P-27+28) MCQ (10×1=10); 10 min
09 October 2024 (Wednesday)	Live class (B-17+18) Botany: Chapter- 03	Daily Live Exam (C-35+36) MCQ (10×1=10); 10 min
10 October 2024 (Thursday)	Live class (HM-4 <mark>9+50)</mark> H.Math: Chapter- 07	Daily Live Exam (B-17+18) MCQ (10×1=10); 10 min
11 October 2024 (Friday)	Chapter-wise Exam [H.Math 1st Paper Chapter-08] (CC	2 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
	Online classes and exams will be closed on October 12	and 13 on the occasion of Sharadiya Durga Puja.
14 September 2024 (Monday)	Live class (P-29+30) Physics: Chapter- 04	Daily Live Exam (HM-49+50) MCQ (10×1=10); 10 min
15 October 2024 (Tuesday)	Live class (P-31+32) Physics: Chapter-05	Daily Live Exam (P-29+30) MCQ (10×1=10); 10 min
16 October 2024 (Wednesday)	Live class (Z-15+16) Zoology: Chapter- 03	Daily Live Exam (P-31+32) MCQ (10×1=10); 10 min
17 October 2024 (Thursday)	Live class (HM-51+52) H.Math: Chapter- 07	Daily Live Exam (Z-15+16) MCQ (10×1=10); 10 min
19 October 2024 (Esideu)	Chapter-wise Exam [Chemistry 1st Paper Chapter-03]	(Part-02); Lecture C-31 to 36; (CQ 2×10=20); Time: 50min &
18 October 2024 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.	
19 October 2024 (Saturday)	Chapter-wise Exam [Botany Chapter-03] (CQ 2×10=20)	; Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.
20 October 2024 (Sunday)	Live class (Z-17+18) Zoology: Chapter- 03	Daily Live Exam (HM-51+52) MCQ (10×1=10); 10 min
21 October 2024 (Monday)	Live class (P-33+34) Physics: Chapter- 05	Daily Live Exam (Z-17+18) MCQ (10×1=10); 10 min
22 October 2024 (Tuesday)	Live class (P-35+36) Physics: Chapter- 05	Daily Live Exam (P-33+34) MCQ (10×1=10); 10 min
23 October 2024 (Wednesday)	Live class (B-25+26) Botany: Chapter- 05	Daily Live Exam (P-35+36) MCQ (10×1=10); 10 min
24 October 2024 (Thursday)	Live class (B-27+28) Botnay: Chapter- 05	Daily Live Exam (B-25+26) MCQ (10×1=10); 10 min
24 October 2024 (Thursday) 25 October 2024 (Friday)		Daily Live Exam (B-25+26) MCQ (10×1=10); 10 min Q 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.

Online Classes & Exam Procedure:

* Go to this website udvash.com and click on 'Join Now' menu to give Live Class & Exam. Login to class 11th academic program Prime Batch using your admitted registration number to participate in classes and exams.

* The Daily Live Exam will run from 09:00 am to 11:00 pm as per the date mentioned in the routine. A student can participate in the Live Exam only once during this period. However, for more practice, students can participate in the Practice Exam of the same syllabus multiple times.

HSC 1st Year Academic Program Prime Batch Part-02 Syllabus-2024 (Online)

		Physics 1st Paper (Reference Book: UDVASH Parallel Text)
Chapter	Chapter	Syllabus
Chapter2	P-13	Calculus, Differentiation, Integration, Functions with Multiple Variables and Partial Differentiation.
Vector	P-14	Scalar and Vector Field, Gradient, Divergence, Curl.
Chapter-1 Physical World and	P-01	Scope of Physics, Physics and Other Branches of Science, Evolution of Physics, Definition of concepts, formulae, postulates and theories of Physics. Measurement, Unit, Dimension, Equation of Dimension, Principle of Homogeneity, Unit conversion of physical quantities, Limitations of dimensional equations, Error, Instrumental Errors, Observational Errors, Random Errors, Systematic Errors, Least Count Error, Calculation of Error, Accuracy and Precision, Significant Figures.
Measurement	P-02	Some instruments of measurement, Vernier Scale, Slide Callipers, Screw Gauge, Spherometer, Scale Balance, All Important Formulae at a Glance, Mathematical Problems.
	P-15	Reference Frame, Rest and Motion, Distance and <mark>Displace</mark> ment, Average Velocity and Average Speed, Instantaneous Velocity and Instantaneous Speed, Acceleration. Laws of Mo <mark>tion for Un</mark> iform Acceleration.
	P-16	Describing motion with Graphs, Determining v <mark>elocity wi</mark> th the concepts of slope and area.
Chapter-3	P-17	Motion of Free-Falling Bodies, Vertical Projectile, Some Special Equations for Vertical Projectiles, Proof of Galileo's Laws from the Equations of Motion.
Dynamics	P-18	Motion of an object in a curve, Vector Equations of the Laws of Motion for Uniform Acceleration, Projectile Motion, Equations for Projectile Motion, Equations for Projectile Motion, Equations relating to Projectiles.
	P-19	Some problems related to projec <mark>tiles.</mark>
	P-20	Uniform Circular Motion, Some Quantities related to Uniform Circular Motion, Centripetal Acceleration, Equations relating to Centripetal Acceleration, Resultant of Acceleration, Equations for Angular Motion.
	P-21	Primary concept of Force, Newtonian Mechanics, Newton's first Law of motion, Inertia of rest and motion, Intuitive Idea of Force, General Characteristics of Force, Types of Force, Fundamental forces, Gravitational Force, Electromagnetic Force, Strong Nuclear force, Weak Nuclear force.
	P-22	Momentum, Newton's sec <mark>ond law of motion, Equilibrium of Forc</mark> es.
	P-23	Newton's third law of motio <mark>n, System, External and Internal Forc</mark> e, Types of forces, Gravitational Force, Normal Force, Weight, Tension.
	P-24	Friction, Friction angle, Static Angle.
Chapter-4 Newtonian	P-25	Conservation of momentum, Vector format of Conservation of momentum, Collision, Quantities of One dimentional collision.
Mechanics	P-26	Center of mass, Impulse, Application of Newton's Forces, standing of the ground, Walking, running horse cart, Pulling Boat, Motion of Rocket, Relation between Newton's Laws.
	P-27	Uniform Circular motion, Centripetal force, Centrifugal force, Banking on roads. Cycle, Train/Cars.
	P-28	Rotational inertia: Moment of inertia, Radius of gyration, Perpendicular Axis theorem, Parallel axis theorem.
	P-29	Moment of inertia in various objects, Torque, equations of torque, Vector format of torque, Torque and angular acceleration.
	P-30	Angular momentum, Equivalent way of measuring angular momentum, angular momentum of circular motion, relation between torque and angular momentum, Newton's law of angular motion, Important formulas together, Mathematical Problems.
Chapter-5 Work, Energy and Power	P-31	Work, Positive, negative and zero work, Constant force and changing force, Work done for constant force.
	P-32	Work done for changing force, Spring force, Work done for rotation.
	P-33	Dependency of work done on path, Kinetic Energy and Work-Energy theorem, Kinetic energy of rotating body, Kinetic energy rotating and spinning body.
	P-34	Conservative force, non-conservative force, Potential energy, Gravitational potential energy, Elastic potential energy, Relation between force and potential energy.
	P-35	Work done and change of mechanical energy, Conservation of mechanical energy, Conservation of energy.
	P-36	Power, Efficiency, Mathematical Problems, Displacement of center of mass, Well and reservoir related problems.

Chemistry 1st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Chapter	Syllabus	
Chapter-2	C-17	Principle of Solubility Product, Application of the principle of Solubility Product Common ion and its effect to change solubility	
Qualitative	C-18	Application of common ion, effect of pH on solubility, Related Math.	
Chemistry	C-19	Qualitative Analysis (Ion identification)- Flame test, wet test (+ve and –ve ion identification), detecting presence of Carbon in organic	
Introduction		compounds, detection of Hydrogen in organic compounds, Detection of N, S, X (F, Cl, Br, I) in organic compounds.	

	6.20	Applications of Qualitative Chemistry (Physical Analysis)- crystallization, distillation and partial distillation, steam distillation,
	C-20	sublimation, low pressure distillation,
	C-21	solvent extraction.
	C-22	Nernst's distribution formula, chromatography, column chromatography, thin layer chromatography, paper chromatography, importance
		of qualitative analysis.
	C-23	History, idea and significance of periodic table, Classification of elements based on e^- configuration, Block elements (s, p, d, f)
	C-25	characteristics.
	C-24	Chemical properties of block elements (Chemical properties of s block elements).
	C-25	Chemical properties of block elements (Chemical properties of p block elements) Part-01
	C-26	Chemical properties of block elements (Chemical propertie <mark>s o</mark> f p block elements) Part-02
	C-27	Chemical properties of block elements (Chemical properties of d block elements, Chemical properties of f block elements).
Chapter-3	C-28	Transitional Element, properties of transitional element.
Periodic Properties	C-29	Periodic properties- atomic size, Ionization energ <mark>y, electron</mark> affinity.
and	C-30	Electronegativity, Melting point/Boiling point, A <mark>cidity/Basi</mark> city of oxides.
Bonding in	C-31	Chemical Bonds- Ionic bond, Metallic bond, Covalent bond, Classification of covalent bond, lewis dot structure.
Elements	C-32	Orbital overlapping. Hybridization, Cl <mark>ass</mark> ificati <mark>on of Hyb</mark> rid orbitals.
	C-33	Determination of Hybridization sta <mark>te of</mark> centra <mark>l atom, R</mark> elation between Shapes of covalent compounds and hybrid orbitals, Effect of
	C-33	lone pair electrons on Molecular <mark>shapes.</mark>
	C-34	Ligand, Coordinate covalent bon <mark>d.</mark>
	C-35	Effect of electronegativity on compounds with chemical bonds- Polarization or deformation of ion, Covalent properties in ionic
	C-33	compounds, Fajan's rule, Effect o <mark>f polarization</mark> on salt.
	C-36	Weak chemical bonds- Vander Waals force, H bond, Importance of H bond, Naming of inorganic compounds.

H.Math 1st Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Chapter	Syllabus	
	HM-01	Exercise – 1.1; Types of Ma <mark>trix, Problems</mark> Related to Types of Matrix, Addition and subtraction of matrices, Problems on Matrix Addition	
		and Subtraction, Equality o <mark>f matrices, Proble</mark> ms on Equality of matrices.	
	HM-02	Exercise – 1.1; Scalar Produc <mark>t of Matrix, Matrix multiplication of m</mark> atrices, Problems related to multiplication of matrix, Exponent of	
		matrix, Problems related to polynomials in matrices, Some special matrices, Properties of some special matrices.	
Chapter-1	HM-03	Exercise – 1.1; Related to trace of matrix, Matrix in Real life, Problems related to Matrix in Real life,	
Matrix	110-05	Exercise – 1.2; Minor of determinant, Co-factor <mark>, Va</mark> lue of D <mark>ete</mark> rminant, Determinant values, coefficients, regression problems.	
and	HM-04	Exercise – 1.2; Singular and Non-singular matrix, Problems related to singular and non-singular matrix, Inverse Matrix, Problems related	
Determinant	110-04	to inverse matrix.	
	HM-05	Exercise – 1.2; Properties of determinant, Invariant Proof Problems with Determinants, prove without expansion, Solving equations with	
		determinants.	
	HM-06	Exercise – 1.2; Solving set of equations – Cramer's Method, Solving Set of Equations – Inverse Matrix Method, Problems related to solving	
	нм-06	set of equations, Special formulas regarding the value of determinants, Special formulas for determining value of determinants.	
		Exercise - 6; Types of trigonometry, Quadrant, Two-Dimensional Angle, Measurement of two-dimensional angles, Radian angle is a constant	
	HM-35	angle, Relation between Degrees and Radians, Three-Dimensional Angle and its Measurement, Problems related to interconversion of	
		sexagesimal, centesimal, and circular systems of angle, Determination of length of arc, Determination of area of sector.	
Chapter-6	HM-36	Exercise - 6; Angle between hour and minute hands of a clock, Interior Angle of Polygon, Similar Triangle, Ratio of trigonometric angles,	
Trigonometric	1111 50	Basic theory, Trigonometric ratio of axial angles, Relationship between ratios of trigonometric angles.	
ratio	HM-37	Exercise - 6; Problems related to mutual conversion and determination of values of trigonometric ratios, Proof related problems,	
		Trigonometric identities related problems, Circular functions and their domain range.	
	HM-38	Exercise - 6; Graphs of trigonometric functions, Problems related to Graphs, Period of Trigonometric functions, Different changes in the	
	HM-38	graph of trigonometric functions, Related to Fundamental Period.	
		Exercise – 7.1; θ or Trigonometric ratio of positive acute angle: (-θ) or Trigonometric ratio of negative angle: (90° – θ), i.e. Trigonometric	
	HM-41	ratio of θ angle: Co-function: (90° + θ), (180° – θ), (180° + θ), (270° - θ), (270° + θ) are the trigonometric ratios of the angles, Trigonometric	
Chapter-7		Equations and Problems involving Associated Angles, Sum of Squares of Trigonometric Ratios and Problems.	
Trigonometric Ratio of	HM-42	Exercise - 7.1; Properties and problems of tangent or cotangent ratios, determination of values and problems using various trigonometric formulae,	
Associated		Exercise - 72; Trigonometric Proportions of Compound Angles, A and B are positive acute angles where A > B, Problems on Trigonometric ratios.	
Angle	HM-43	Exercise - 7.2; Formulas and Problems on A±B, Expansion related problem, $\frac{\cos \cos A \pm \sin \sin A}{\cos \cos A \mp \sin \sin A}$ formula related problems, A + B = constant	
,	1111-43	related problems.	

		Exercise - 7.2; Determination of maximum/minimum values of trigonometric expressions, Exercise - 7.3; Formulas and problems related
	HM-44	to $sin(A+B) \pm sin (A-B)$ or $cos(A+B) \pm cos(A-B)$.
	HM-45	Exercise - 7.3; $TF_1C \pm TF_2D$ related problems, $sinA + cosA$ related problems.
	HM-46	Exercise - 7.4; Trigonometric Ratios of Multiple Angles, Formulas and Problems related to Trigonometric Ratios of Angles 2A, Series
		(Arithmetic and Geometric series) and Problems.
	HM-47	Exercise - 7.4; Periodic Square Roots related and Problems, Trigonometric Ratios of 3A Angles and Problems related to Trigonometric
		Ratios of 3A Angles, Trigonometric Ratios of Certain Angles.
	HM-48	Exercise - 7.5; Formulas and problems related to proof, problems related to determination of values of various trigonometric ratios from
		values of $\cos x + \cos y$ and $\sin x + \sin y$.
	HM-49	Exercise - 7.6; problems related to tangent and cotangent, re <mark>la</mark> ted to sine and cosine.
	HM-50	Exercise - 7.7; Related to sine rule of triangle, tangent rule or Napier's formula, Tangent rule related problems.
	HM-51	Exercise - 7.7; Cosine rule, Cosine rule of triangle, Projection rule, Perpendicular projection, Progression Related, Trigonometric ratios and
		formulas of half-angles of triangles.
	HM-52	Exercise - 7.7; Area of Triangle, Relationship between Inradius and Circumradius: Area, Determining nature of triangle subject to conditions, Others.
	HM-53	Exercise - 8; Set and its types, Interval, Set mapping & cartesian product, relation and their identification, clear idea of set through
		mapping, Domain. Range and Co-domain, role of constant and co-efficient in function, Function and its graph, Piecewise Function,
		problems related to value determination of function.
Chapter-8 Functions	HM-54	Exercise - 8; One-one function and many-one function, Onto function, Bijective function.
Functions &	HM-55	Exercise - 8; Inverse function rel <mark>ated, Inv</mark> erse function and inverse relation, Discussion related to domain range determination.
Graph	HM-56	Exercise - 8; Interconversion of function and relation, graph shifting or translation, graph, scaling graph reflecting Symmetry of graph.
	HM-57	Exercise - 8; Square root functions, rational functions, $\left(f(x) = \frac{P(x)}{\rho(x)}\right)$.
	1114 50	Exercise - 8; n th root functions, Absolute value function, exponential functions, $(y = a^x; a > 0, a \neq 1)$, logarithmic functions, Composite
	HM-58	function.

Botany (Reference Book: UDVASH Parallel Text)			
Chapter	Chapter	Syllabus	
	B-09	Amitosis, Cell Cycle: Cell Cyc <mark>le Regulators, Int</mark> erphase: G ₁ Phase, S Phase, G ₂ Phase.	
Chapter-2	B-10	M-phase (prophase, prometa <mark>phase, metaphase, a</mark> napha <mark>se, teloph</mark> ase)	
Cell Division	B-11	Importance of mitosis, uncontrolled mitosis, cell death. Meiosis Cell Division: Meiosis-1: Prophase-1, Metaphase-1, Anaphase-1, Telophase-1, Interkinesis-1	
	B-12	Meiosis-2: Prophase-2, Metaphase-2, Anaphase-2, Telophase-2, Cytokinesis-2, Characteristics of Meiosis, Importance of Meiosis, Crossing over.	
	B-13	Carbohydrates: Properties of Carbohydrates, Types of Carbohydrates (Sugars): Monosaccharides (Triose, Tetrose, Pentose).	
	B-14	Monosaccharides (hexose, heptose), disaccharides.	
Chapter-3	B-15	Oligosaccharides, Polysaccharides, Functions of Carbohydrates.	
Cell Chemistry	B-16	Amino acid, classification of amino acoid, protein, classification of protein.	
chemistry	B-17	Lipid, classification of lipid, function of lipid.	
	B-18	Enzymes: Properties of Enzymes, Mechanism of action of Enzymes, Types of Enzymes, Effectors on Enzymes, Uses of Enzymes.	
	B-25	Algae (Characteristics, Physical Structure, Celluler Structure), Reproduction of Algae (Vegetative Reproduction, Asexual Reproduction, Sexual Reproduction).	
Chapter-5	B-26	Ulothrix (Habitat, Physical Structure, Reproduction), Economic Importance of Algae.	
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.	

Zoology (Reference Book: UDVASH Parallel Text)			
Chapter	Chapter	Syllabus	
Chapter-1	Z-03	Poriphera, Cnidaria, Platyheminthes.	
Animal	Z-04	Nematoda, Mollusca, Annelida.	
diversity and	Z-05	Arthropoda, Echinodermata.	
Classification	Z-06	Chordata: Characteristics of the various subphylums and classes of the order Chordata, classification of vertebrata.	

	Z-07	Hydra, external structure of hydra, internal structure of hydra, cells of epidermis, structure of ideal cnidocyte, types of nematocyst,
		technique of nematocyst discharge.
	Z-08	Cells of Gastrodermis, Mesoglia, Coelenteron, Feeding and Digestion mechanism of Hydra, Locomotion of Hydra, Reproduction of Hydra,
		Regeneration of Hydra, Division of Labor in Hydra, symbiosis.
Chapter-2	Z-09	Grasshopper, external structure of grasshopper, regions of grasshopper, Mouthparts of grasshopper.
Introduction	Z-10	Alimentary system (alimentary canal, alimentary glands), feeding and digestion of grasshopper.
to Animal	Z-11	Circulatory system, respiratory system, excretory system.
	7 10	Sensory organs of grasshopper, Compound eye of grasshopper, vision mechanism, reproduction process, metamorphosis, role of
	Z-12	hormones in metamorphosis.
	Z-13	The Rohu fish, external structure, scale, circulatory system, <mark>blo</mark> od, heart, blood vessels (arterial system).
	Z-14	Fish venous system, respiratory system, structure of gills, respiratory mechanism, air bladder, reproduction and life cycle of fish.
Chapter-3	Z-15	Digestion, types of digestion, digestive system, oral cavity, digestion of food inside oral cavity, dental formula, pharynx, oesophagus.
Human	Z-16	Stomach, digestion of food inside stomach, small intestine, digestion of food inside small intestine, large intestine.
Physiology: Digestion and	Z-17	Digestive glands: salivary gland, Liver, pancreas, gastric gland, intestinal gland, role of nervous system and hormone in digestion.
Absorption	Z-18	Absorption of digested food materials, <mark>fa</mark> te of <mark>absorbed</mark> food materials, obesity.

For any information regarding the online program contact the following numbers

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