HSC 2nd Year Academic Program Pioneer Batch

Online Batch Time

English Version - 3:00pm

Class & Exam Routine
(Part-01)

Online Exam Time
From 9:00am to 11:00pm

14 May 2024 (Tuesday) Orientation Class Evening – 7.30 pm			
Date & Day	Live Class	Live Exam	
15 May 2024 (Wednesday)	Live Class (P-01+02) Physics: Chapter - 01	Basic Introductory Exam MCQ (10×1=10); 10 min.	
16 May 2024 (Thursday)	Live Class (C-01+02) Chemistry: Chapter - 01	Daily Live Exam (P-01+02) MCQ (10×1=10); 10 min.	
19 May 2024 (Sunday)	Live Class (HM-01+02) H.Math: Chapter - 03	Daily Live Exam (C-01+02) MCQ (10×1=10); 10 min.	
20 May 2024 (Monday)	Live Class (B-21+22) Botany: Chapter - 08	Daily Live Exam (HM-01+02) MCQ (10×1=10); 10 min.	
21 May 2024 (Tuesday)	Live Class (HM-03+04) H.Math: Chapter - 03	Daily Live Exam (B-21+22) MCQ (10×1=10); 10 min.	
22 May 2024 (Wednesday)	Live Class (P-03+04) Physics: Chapter - 01	Daily Live Exam (HM-03+04) MCQ (10×1=10); 10 min.	
23 May 2024 (Thursday)	Live Class (C-03+04) Chemistry: Chapter - 01	Daily Live Exam (P-03+04) MCQ (10×1=10); 10 min.	
26 May 2024 (Sunday)	Live Class (HM-05+06) H.Math: Chapter – 03	Daily Live Exam (C-03+04) MCQ (10×1=10); 10 min.	
27 May 2024 (Monday)	Live Class (C-05+06) Chemistry: Chapter - 01	Daily Live Exam (HM-05+06) MCQ (10×1=10); 10 min.	
28 May 2024 (Tuesday)	Live Class (B-23+24) Botany: Chapter - 08	Daily Live Exam (C-05+06) MCQ (10×1=10); 10 min.	
29 May 2024 (Wednesday)	Live Class (P-05+06) Physics: Chapter - 01	Daily Live Exam (B-23+24) MCQ (10×1=10); 10 min.	
30 May 2024 (Thursday)	Live Class (C-07+08) Chemistry: Chapter - 01	Daily Live Exam (P-05+06) MCQ (10×1=10); 10 min.	
31 May 2024 (Friday)	Chapter-wise Exam [Chemistry 2nd Paper Chapter-01] (Part-01); Lecture C-01 to 04; (CQ 2×10=20); Time: 50min &	
	(Pre-Admission MCQ 10×1=10); Time: 10min.		
01 June 2024 (Saturday)	Chapter-wise Exam [H.Math 2nd Paper Chapter-03] (CQ	2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
02 June 2024 (Sunday)	Live Class (HM-07+08) H.Math: Chapter – 04	Daily Live Exam (C-07+08) MCQ (10×1=10); 10 min.	
03 June 2024 (Monday)	Live Class (C-09+10) Chemistry: Chapter – 01	Daily Live Exam (HM-07+08) MCQ (10×1=10); 10 min.	
04 June 2024 (Tuesday)	Live Class (Z-27+28) Zoology: Chapter – 07	Daily Live Exam (C-09+10) MCQ (10×1=10); 10 min.	
05 June 2024 (Wednesday)	Live Class (Z-29+30) Zoology: Chapter – 07	Daily Live Exam (Z-27+28) MCQ (10×1=10); 10 min.	
06 June 2024 (Thursday)	Live Class (C-11+12) Chemistry: Chapter – 02	Daily Live Exam (Z-29+30) MCQ (10×1=10); 10 min.	
07 June 2024 (Friday)	Chapter-wise Exam [Botany Chapter-08] (CQ 2×10=20);	Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.	
08 June 2024 (Saturday)	224 (Saturday) Chapter-wise Exam [Physics 2nd Paper Chapter-01] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
09 June 2024 (Sunday)	Live Class (HM-09+10) H.Math: Chapter - 04	Daily Live Exam (C-11+12) MCQ (10×1=10); 10 min.	
10 June 2024 (Monday)	Live Class (C-13+14) Chemistry: Chapter - 02	Daily Live Exam (HM-09+10) MCQ (10×1=10); 10 min.	
11 June 2024 (Tuesday)	Live Class (Z-31+32) Zoology: Chapter – 07	Daily Live Exam (C-13+14) MCQ (10×1=10); 10 min.	
12 June 2024 (Wednesday)	Live Class (P-07+08) Physics: Chapter - 02	Daily Live Exam (Z-31+32) MCQ (10×1=10); 10 min.	
Online Classes and	d examinations will be closed from June 13, 2024 (Thursday	y) to June 22, 2024 (Saturday) on the occasion of Eid-ul-Azha	
23 June 2024 (Sunday)	Live Class (P-09+10) Physics: Chapter - 02	Daily Live Exam (P-07+08) MCQ (10×1=10); 10 min.	
24 June 2024 (Monday)	Live Class (C-15+16) Chemistry: Chapter – 02	Daily Live Exam (P-09+10) MCQ (10×1=10); 10 min.	
25 June 2024 (Tuesday)	Live Class (B-25+26) Botany: Chapter – 09	Daily Live Exam (C-15+16) MCQ (10×1=10); 10 min.	
26 June 2024 (Wednesday)	Live Class (HM-11+12) H.Math: Chapter – 04	Daily Live Exam (B-25+26) MCQ (10×1=10); 10 min.	
27 June 2024 (Thursday)	Live Class (C-17+18) Chemistry: Chapter – 02	Daily Live Exam (HM-11+12) MCQ (10×1=10); 10 min.	
28 June 2024 (Friday)	Chapter-wise Exam [Chemistry 2nd Paper Chapter-01] ((Pre-Admission MCQ 10×1=10); Time: 10min.	Part-02); Lecture C-05 to 10; (CQ 2×10=20); Time: 50min &	
29 June 2024 (Saturday)	Chapter-wise Exam [Zoology Chapter-07] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
30 June 2024 (Sunday)	Live Class (P-11+12) Physics: Chapter - 02	Daily Live Exam (C-17+18) MCQ (10×1=10); 10 min.	
01 July 2024 (Monday)	Live Class (C-19+20) Chemistry: Chapter – 02	Daily Live Exam (P-11+12) MCQ (10×1=10); 10 min.	
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03 July 2024 (Wednesday)	Live Class (HM-13+14) H.Math: Chapter – 04	Daily Live Exam (B-27+28) MCQ (10×1=10); 10 min.	
04 July 2024 (Thursday)	Live Class (C-21+22) Chemistry: Chapter – 02	Daily Live Exam (HM-13+14) MCQ (10×1=10); 10 min.	
05 July 2024 (5sides)	Chapter-wise Exam [Chemistry 2nd Paper Chapter-02]	(Part-01); Lecture C-11 to 18; (CQ 2×10=20); Time: 50min &	
05 July 2024 (Friday)	(Pre-Admission MCQ 10×1=10); Time: 10min.		
06 July 2024 (Saturday)	Chapter-wise Exam [H.Math Chapter-04] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
07 July 2024 (Sunday)	Live Class (P-13+14) Physics: Chapter - 02	Daily Live Exam (C-21+22) MCQ (10×1=10); 10 min.	
08 July 2024 (Monday)	Live Class (C-23+24) Chemistry: Chapter – 02	Daily Live Exam (P-13+14) MCQ (10×1=10); 10 min.	
09 July 2024 (Tuesday)	Live Class (B-29+30) Botany: Chapter – 09	Daily Live Exam (C-23+24) MCQ (10×1=10); 10 min.	
10 July 2024 (Wednesday)	Live Class (HM-25+26) H.Math: Chapter – 07	Daily Live Exam (B-29+30) MCQ (10×1=10); 10 min.	
11 July 2024 (Thursday)	Live Class (C-25+26) Chemistry: Chapter – 02	Daily Live Exam (HM-25+26) MCQ (10×1=10); 10 min.	
12 July 2024 (Friday)	Chapter-wise Exam [Physics 2nd Paper Chapter-02] (CQ 2×10=20); Time: 50min & (Pre-Admission MCQ 10×1=10); Time: 10min.		
14 July 2024 (Sunday)	Live Class (P-15+16) Physics: Chapter - 03	Daily Live Exam (C-25+26) MCQ (10×1=10); 10 min.	
15 July 2024 (Monday)	Live Class (C-27+28) Chemistry: Chapter – 02	Daily Live Exam (P-15+16) MCQ (10×1=10); 10 min.	
16 July 2024 (Tuesday)	Live Class (B-31+32) Botany: Chapter - 09	Daily Live Exam (C-27+28) MCQ (10×1=10); 10 min.	

Next Class & Exam Routine (Part-02) will be published...

Online Classes & Exam Procedure:

- * Go to this website udvash.com and click on 'Join Now' menu to give Live Class & Exam. Login to class 12th academic program 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 2nd Year Academic Pioneer Batch Course Syllabus Part-01 (Online)

Physics 2nd Paper (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
	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, Molar Heat capacity, Thermal function of static and path, Isobaric Process, Isochoric Process.	
Chapter-1	P-03	Isothermal Process, Adiabatic Process, Concept of Second law of thermodynamics, Thermal Engine.	
Thermodynamics	P-04	Efficiency of thermal engines, Reversible and Irreversible process, Factors of Irreversible process, Carnot Cycle, Efficiency of Carnot engine.	
	P-05	Refrigerator, Efficiency coefficient of refrigerator, Refrigeration cycle of Carnot, Mechanism of refrigerator.	
	P-06	Entropy, Entropy in reversible and irreversible process, Change of entropy in various process, Entropy and disorder, Thermal death of the universe.	
	P-07	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-08	Electric Field on a point for point charge, Law of superposition of electricity intensity, Field line, Uniform electric field, Electric field intensity.	
	P-09	Electric Potential, Equations of electric potential, Potential Difference, Relation of potential difference with intensity, Flow of charge.	
Chapter-2	P-10	Electric potential and intensity of a charged conductor sphere, Plane density and electric intensity.	
Static Electricity	P-11	Torque of a dipole in uniform electric field, Dipole moment, Work done by rotation of dipole, Potential energy of a dipole, Potential and intensity for a dipole.	
	P-12	Insulator and dielectric, Capacitor and Capacitance, Spherical and Parallel plate capacitor, Connection of capacitors, energy stored in capacitor, energy stored in a capacitor.	
	P-13	Gauss' Theorem, Electric flux, Electric flux in a closed surface, Gauss' law from Coulomb's law.	
	P-14	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.	
	P-15	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.	

Chapter-3		Electric Circuit, Resistance combination, Series combination, Parallel combination, Equivalent resistance, Work done by electricity
Current	P-16	and electric force. Joule's thermal law.
Electricity		and electric force, Joule's thermanaw.

Chapter Lecture Say Continuence Co	Chemistry 2nd Paper (Reference Book: UDVASH Parallel Text)				
C-02 Combined Gas law. Charle's law. Avogadro's law, Gay-Lussac's law. C-02 Combined Gas law- Combined Jaw, Ideal gas equation (PV = nRT), Explanation of R. C-03 Diffusion, Effusion and Kinetic theory of Gas- Dattor's law of partial pressure, Graham's law of diffusion. C-04 Diffusion, Effusion and Kinetic theory of Gas- Dattor's law of partial pressure, Graham's law of diffusion. C-05 Diffusion, Effusion and Formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy. C-06 Gas cylinderisation, Effects of different gas on environment- Reactions occurred during lightning, Fixation of Ns in soil. C-07 Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O ₂ layer, Damage of O ₃ layer. C-08 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-09 Effect of Chemistry on Environment- Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pkj DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Introduction and Classification of Organic Chemistry- Introduction to organic compounds, Homologous series, Functional group. C-12 Nomenclature of Organic Compounds- (Tirial) system, derived system). C-13 Nomenclature of Organic Compounds- (Tirial) system, derived system). C-14 Isomerism- Introduction, Classification. C-15 Structural isomerism, Types of structural isomerism, Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism, Cearbon, Enathment, Distercency, Exercise Proceeding, System). C-18 Nucleophile substitution (Sia and Sx.), Electrophile elimination (E1 and E2) C-19 Alightic hydrocarbon - Saturated hydrocarbon (Alkane and everything of Bikene) C-20 Linday device and everything about it them (Part-O2). C-21 Al	Chapter	Lecture	Syllabus		
bore, Boyle's law, Charle's law, Avogadro's law, Gay-Lussac's law. C-02 Combined Gas law- Combined law, Ideal gas equation (PV = NRT), Explanation of R. C-03 Diffusion, Effusion and Kinetic theory of Gas- Dalton's law of partial pressure, Graham's law of diffusion. C-04 Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy. C-05 Ideal Gas and Real Gas - Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amaget's curve, Vander Walls equation. C-06 Gas eyilinderisation, Effects of different gas on environment-1 Reactions occurred during lightning, Fixation of No. In soil. Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O ₂ layer, Damage of O ₃ layer. C-08 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-09 Effect of Chemistry on Environment-Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, ph. Do., BOD, CDD, TOS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Introduction and Classification of Organic Compounds, Homelogous series, Functional group. C-12 Nomenclature of Organic Compounds- (FuPAC system). C-13 Nomenclature of Organic Compounds- (FuPAC system). C-14 Isomerism. Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism, Geometric isomerism (Sustercener, Racemic mixture) C-18 Nucleophilie substitution (Sal and Su2), Electrophilic elimination (El and E2) C-19 Aliphatic hydrocarbon - Saturated hydrocarbon (Alkane and everything about it. C-20 Larbosylic acid and everything about it. C-21 Aldehyde-Ketone and everything about it. C-22 Andehyde-Ketone and everything about it. C-23 Andehyde-		C-01	Gas and Gas laws – Gas, Components of atmosphere, Atmospheric temperature, Effect of pressure and density, Cyclone and tidal		
Chapter-1 Environmental Chemistry (Partial) C-03 Diffusion, Effusion and Kinetic theory of Gas- Dalton's law of partial pressure, Grahams law of diffusion. C-04 Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of Kinetic theory, Calculation of kinetic energy. C-05 Environmental Chemistry (Partial) C-06 Gas cylinderisation, Effects of different gas on environment- Reactions occurred during lightning, Fixation of N; in soil. Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O; layer, Damage of O; layer. C-08 C-08 Effect of Chemistry on Environment- Source of greenhouse gas, Introduction to CFC and its use, origination of O; layer, Damage of O; layer. C-09 Effect of Chemistry on Environment- 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. 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. Nomenclature of Organic Compounds- (IUPAC system). C-14 Isomerism- introduction, Classification C-15 Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric (csh trans isomerism, E-z isomerism, Syn-Anti isomerism) C-18 C-19 C-19 Alkyhalide and everything about it. C-20 Alkehyde-Ketone and everything about it. C-21 Alkehyde-Ketone and everything about then (Part-O1). Aldehyde-Ketone and everything about then (Part-O2). C-25 Carbooxylic acid and everything about then (Part-O2). C-26 Amine and everything about it. C-27 And Huckle law.		C-01	bore, Boyle's law, Charle's law, Avogadro's law, Gay-Lussac's law.		
C-04 Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy. C-05 Ideal Gas and Real Gas - Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amagat's curve, Vander Walls equation. C-06 Gas cylinderisation, Effects of different gas on environment - Reactions occurred during lightning, Fixation of Ns. in soil. C-07 Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of Os layer, Damage of Os layer. C-08 Concept related to a cid base- Acid base theory, Arrhenius concept, Bronsted-Lowry concept (Theory, conjugate), Luis theory, Acid rain, Cause of acid rain, Prevention of acid rain. C-09 Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Introduction and Classification of Organic Chemistry- Introduction to organic compounds, Hydrocarbon and organic compounds, Soll of carbon in hydrocarbon, Classification of organic compounds, Homologous series, Functional group. C-12 Nomenclature of Organic Compounds- (Tribal system). C-13 Nomenclature of Organic Compounds- (Tribal system). C-14 Isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism) C-16 Isomerism (Cyral carbon, Enantiomer, Disastereomer, Racemic mixture) C-17 Technique of Organic Reaction - Division of bond (uniform and ununiform), Electrophille, Nucleophille, Carbocation, Carbanion. C-18 Nucleophile substitution (Sxl and Sx.), Electrophilic elimination (El and E2) C-20 Unsaturated hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane) C-21 Alky halide and everything about it. C-22 Everything about alcohol and ether. Arimic and everything about it. C-23 Aldehyde-Ketone and everything about it. C-24 Aldehyde-Ketone and every		C-02	Combined Gas law- Combined law, Ideal gas equation (PV = nRT), Explanation of R.		
Chapter-1 Environmental Chemistry (Partial) C-05 Ideal Gas and Real Gas – Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amagat's curve, Vander Wallis equation. C-06 Gas cylinderisation, Effects of different gas on environment Reactions occurred during lightning, Fixation of No in soil. Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O ₂ layer, Damage of O ₂ layer. C-08 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. Effect of Chemistry on Environment-Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Introduction and Classification of Organic Chemistry- Introduction to organic compounds, Hydrocarbon and organic compounds, Romologous series, Functional group. C-12 Nomenclature of Organic Compounds- (Tibal system, derived system). C-13 Nomenclature of Organic Compounds- (Tibal system, derived system). C-14 Isomerism - Introduction, Classification. Structural isomerism (Cyral carbon, Classification). C-15 Structural isomerism (Cyral carbon, Classification). C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction - Division of bond (uniform and ununiform), Electrophilie, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (S ₂ 1 and S ₂ 2), Electrophilic elimination (El and E2) C-19 Allyhatic hydrocarbon - Saturated hydrocarbon (Alkane and everything of alkane) C-20 Unsaturated hydrocarbon and everything about it. C-21 Aldehyde-Ketone and everything about it. C-22 Everything about alcohol and ether. Aromatic Hydrocarbon - Benzene and its Discussion -6 Source of benzene, Characteristics and s		C-03	Diffusion, Effusion and Kinetic theory of Gas- Dalton's law of partial pressure, Graham's law of diffusion.		
Chemistry (Partial) C-06 Gas cylinderisation, Effects of different gas on environment- Reactions occurred during lightning, Fixation of N ₂ in soil. Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O ₂ layer, Damage of O ₄ layer. C-08 C-08 C-08 C-08 C-08 C-08 Effect of acid rain, Effect of acid rain, Prevention of acid rain. Effect of Chemistry on Environment- Source of Surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Introduction and Classification of Organic Chemistry-Introduction to organic compounds, Hydrocarbon and organic compounds, Rell of carbon in hydrocarbon, Classification of organic compounds, Homologous series, Functional group. Nomenclature of Organic Compounds- (Tribal system), C-13 Nomenclature of Organic Compounds- (Tribal system), C-14 Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (Cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism, C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophille, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (Sai and Sa)2, Electrophilic elimination (El and E2) C-19 Aliphatic hydrocarbon (Alkene and everything of alkene) C-21 Aldehyde-Ketone and everything about it. C-22 C-23 Aldehyde-Ketone and everything about it. C-24 Aldehyde-Ketone and everything about it. C-25 C-27 Armine and everything about it. C-27 Armine and everything about it. C-27 Armine and everything about it.		C-04	Diffusion, Effusion, Rate of diffusion and formula, Kinetic theory of gas, Postulates of kinetic theory, Calculation of kinetic energy.		
Chemistry (Partial) C-07 Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of Os layer, Damage of Os layer. C-08 C-08 C-08 C-09 Effect of Chemistry on Environment- Source of surface water, Unportance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. 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- (IUPAC system). C-13 Nomenclature of Organic Compounds- (IUPAC system). C-14 Isomerism. Introduction, Classification. C-15 Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (Chain isomerism, E-Z isomerism, Syn-Anti isomerism, Functional group isomerism, Metamerism, C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophilie, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (S-1 and S-2), Electrophilic elimination (E1 and E2) C-20 C-21 Alkyl halide and everything about it. C-22 Everything about alcohol and ether. C-23 Aldehyde-Ketone and everything about them (Part-O1). C-24 Aldehyde-Ketone and everything about it. C-25 C-26 Aromatic Hydrocarbon – Benzene and Its Discussion –6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.	Chapter-1	C-05	Ideal Gas and Real Gas – Real gas, Ideal gas, Deviation, Coefficient of compressibility, Amagat's curve, Vander Walls equation.		
(Partial) C-07 Damage of O ₃ layer. Coccept 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. Effect of Chemistry on Environment- Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, 80D, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. 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). C-14 Isomerism- Introduction, Classification. Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism (Cyal carbon, Enantiomer, Disstereomer, Racemic mixture) C-16 Isomerism (Cyal carbon, Enantiomer, Disstereomer, Racemic mixture) C-17 Technique of Organic Reaction - Division of bond (uniform and ununiform), Electrophille, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (S ₁ 1 and S ₁ 2), Electrophilic elimination (E1 and E2) C-19 Alighhatic hydrocarbon - Saturated hydrocarbon (Alkane and everything of alkane) C-20 Lakyl halide and everything about it. C-21 Alidehyde-Ketone and everything about it. C-22 Alidehyde-Ketone and everything about it. C-23 Aligh and everything about it. Aromati	Environmental	C-06	Gas cylinderisation, Effects of different gas on environment- Reactions occurred during lightning, Fixation of N₂ in soil.		
C-08 C-08 C-08 C-08 C-09 Effect of Chemistry on Environment- Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. Roll of carbon in hydrocarbon (Classification of Organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon (Classification of organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon (Classification of organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon (Classification of organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon, Classification of organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon, Classification of organic compounds, Hydrocarbon and organic compounds, Roll of carbon in hydrocarbon, Classification of organic compounds, Hydrocarbon, Classification. C-13 Nomenclature of Organic Compounds- (Irribal system, derived system). C-14 Isomerism. Introduction, Classification. Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (Cst-trans isomerism, E-z isomerism, Syn-Anti isomerism) C-15 Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (Cst-trans isomerism, E-z isomerism, Syn-Anti isomerism) C-15 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophile, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (Sal and Sa.2), Electrophilic elimination (El and E2) C-18 Alighatic hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane) C-	Chemistry	C-07	Greenhouse gas, Source of greenhouse gas, Effect of greenhouse gas, Introduction to CFC and its use, origination of O₃ layer,		
C-08 rain, Cause of acid rain, Effect of acid rain, Prevention of acid rain. C-09 Effect of Chemistry on Environment - Source of Surface water, Importance of Surface water, Criteria of purity of Surface water, Hardness, ptl, Do, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. 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). C-13 Nomenclature of Organic Compounds- (UPAC system). C-14 Isomerism- Introduction, Classification. Structural isomerism (Cyal carbon, Elastification. C-15 Structural isomerism (is-trans isomerism, E-z isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (is-trans isomerism, E-z isomerism, Syn-Anti isomerism) C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophile, Nucleophile, Carbocation, Carbanion. C-18 Aliphatic hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane) C-20 Unsaturated hydrocarbon (Alkene and everything of alkane) C-21 Alkyl halide and everything about them (Part-O1). C-22 Everything about alcohol and ether. C-23 Aldehyde-Ketone and everything about them (Part-O2). C-25 Carboxylic acid and everything about it. Aromatic Hydrocarbon – Benzene and Its Discussion -6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.	(Partial)	C-07	Damage of O₃ layer.		
rain, Cause of acid rain, Effect of acid rain, Prevention of acid rain. Effect of Chemistry on Environment- Source of surface water, Importance of surface water, Criteria of purity of Surface water, Hardness, pH, DO, BOD, COD, TDS. C-10 Water pollution, Reason and cause of water pollution, Natural pollutant, Arsenic pollutant, Effect of water pollution. 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- (IUPAC system). C-13 Nomenclature of Organic Compounds- (IUPAC system). C-14 Isomerism- Introduction, Classification. Structural isomerism, Types of structural isomerism (Chain isomerism, Position isomerism, Functional group isomerism, Metamerism, Tautomerism), Geometric isomerism (cis-trans isomerism, E-Z isomerism, Syn-Anti isomerism) C-16 Isomerism (Cyral carbon, Enantiomer, Diastereomer, Racemic mixture) C-17 Technique of Organic Reaction- Division of bond (uniform and ununiform), Electrophille, Nucleophile, Carbocation, Carbanion. C-18 Nucleophile substitution (Sai and Saz), Electrophilic elimination (E1 and E2) C-20 Unsaturated hydrocarbon- Saturated hydrocarbon (Alkane and everything of alkane) C-21 Alkyl halide and everything about it. C-22 Everything about alcohol and ether. C-23 Aldehyde-Ketone and everything about them (Part-O1). C-24 Aldehyde-Ketone and everything about it. C-25 Carboxylic acid and everything about it. C-26 Amine and everything about it. Aromatic Hydrocarbon - Benzene and Its Discussion -6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.		C-08	Concept related to acid base- Aci <mark>d b</mark> ase th <mark>eory, Arrh</mark> enius concept, Bronsted-Lowry concept (Theory, conjugate), Luis theory, Acid		
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C-25 Carboxylic acid and everything about it. C-26 Amine and everything about it. C-27 Aromatic Hydrocarbon – Benzene and Its Discussion -6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.		C-23	Aldehyde-Ketone and everything about them (Part-01).		
C-26 Amine and everything about it. Aromatic Hydrocarbon – Benzene and Its Discussion –6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.		C-24	Aldehyde-Ketone and everything about them (Part-02).		
C-27 Aromatic Hydrocarbon – Benzene and Its Discussion -6 Source of benzene, Characteristics and speciality of benzene, Aromaticity and Huckle law.		C-25	Carboxylic acid and everything about it.		
C-27 and Huckle law.		C-26	Amine and everything about it.		
and Huckle law.		C-27	Aromatic Hydrocarbon – Benzene and Its Discussion -6 Source of benzene, Characteristics and speciality of benzene, Aromaticity		
C-28 Preparation and technique of benzene reaction, Homologous of benzene.			and Huckle law.		
		C-28	Preparation and technique of benzene reaction, Homologous of benzene.		

H.Math 2nd Paper (Kererence Book: @PVH3h Parallel Text)			
Lecture	ture Syllabus		
HM-01	Exercise - 3; Concept & Significance of i Brief Discussion on the Exponents of i, Real Axis & Imaginary Axis, Introduction to Complex		
111-1-01	Numbers.		
HM-02	Exercise - 3; Geometric Representation of Complex Numbers in Argand's Diagram, Complex Numbers and Modulus And Argument of		
	Complex Numbers, Polar Form of Complex Numbers.		
HM-03	Exercise - 3; Algebraic Calculations of Complex Numbers, Addition and Subtraction of Complex Numbers, Geometric Representation		
	of Multiplication and Division of Complex Numbers, Square Roots and Quadratic Roots of Complex Numbers.		
HM-04	Exercise - 3; Cube Roots and Sixth Roots of Complex Numbers.		
HM-05	Exercise - 3; De Moivre's Theorem, Mathematical Significance of $ z_1-z_2 $.		
HM-06	Exercise - 3; Geometrical Applications of Complex Numbers, Conditional Proofs and Value Determination.		
	HM-01 HM-02 HM-03 HM-04 HM-05		

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		Exercise - 4; Polynomial & Polynomial Equations, Zero Polynomials, Conditions for Polynomials Using Differentiation, Polynomial
	HM-07	Equations and Roots of Equations, Identity and Equations, Some Theorems of Polynomials, Solution of Quadratic Equations by
		Factorization.
		Exercise - 4; General Solutions of Quadratic Equations, Discriminant, Determining the Nature of Roots of a Quadratic Equation, Problems
	HM-08	on Roots of Quadratic Equations & Nature of Roots, Determining the Nature of Roots of a Quadratic Equation Using Graphs.
	HM-09	Exercise - 4; Properties of Roots in Terms of Coefficients, Relation Between Roots & Coefficients of a Quadratic Equation.
Chapter-04	1111 10	Exercise - 4; Polynomial Equations with Real Coefficients, Polynomial Equations with Rational Coefficients, Formation of Equations
Polynomial &	HM-10	from Roots.
Polynomial	HM-11	Exercise - 4; Determining the x-intercept of a Polynomial Function, Maximum and Minimum Values of Quadratic Polynomial
Equations		Functions, Finding Lines of Symmetry of Quadratic Fun <mark>cti</mark> ons, and Graphing Any Quadratic Function.
	HM-12	Exercise - 4; Graph and Domain-Range of $y = f(x) = \frac{ax^n}{ax^n} + b[n]$ Even & Odd], Common Roots, Relation Between Roots & Coefficients
		of a Cubic Equation.
	HM-13	Exercise - 4; Relation Between Roots & Coefficients of a Polynomial Equation & Formation of Quadratic Equations, Equations with
		Symmetric Roots.
	HM-14	Exercise - 4; Cubic Polynomial Functions and Their Types, Equations with Roots in Progression, Values of Symmetric Expressions of
		Roots.
Chapter-07		
Inverse	HM-25	Exercise – 7.1; Conditions for Existence of Inverse Trigonometric Functions & Graphs (Proofs of Formulae & Examples), Arc Functions.
Trigonometric		
Functions		
&	HM-26	Exercise – 7.1; Principal Valu <mark>e of the Inv</mark> erse Trigon <mark>omet</mark> ric Relations, Domain-Range of the Inverse Trigonometric Functions, Some
Trigonometric		Important Relations.
Equations		

Botany (Reference Book: UDVASH Parallel Text)			
Chapter	Lecture	Syllabus	
Chapter-8	B-21	Meristem, classificati <mark>on of meris</mark> tema <mark>tic tissue, Differenc</mark> e between meristematic tissue and permanent tissue.	
Tissue and	B-22	Epidermal tissue syst <mark>em, stomate, Hyd</mark> athode.	
Tissue system	B-23	Ground tissue system, vascular tissue system.	
1133de System	B-24	Structure of root and st <mark>em of monocot plan</mark> ts, structure of stem of dicot plants.	
	B-25	Absorption of mineral salts, essential nutrients for plants, availability of mineral salts in soil, process of absorption of mineral salts	
	B-25	by plants.	
	B-26	Transpiration, Types of Transpiration, factors influencing Transpiration.	
	B-27	Structure of stomata, explanation of necessary terms related to Transpiration, mechanism of opening and closing of stomata.	
	B-28	Photosynthesis, photosynthetic organs and pigments, light absorption spectrum, photosystem, phases in photosynthesis, light	
		dependent phase, cyclic and acyclic photophosphorylation.	
Chapter-9	B-29	Light independent phase, Calvin Cycle, Hatch and Slack Cycle, Comparison between C_3 and C_4 Plants, Comparison between Calvin	
Plant Physiology		cycle & Hatch and Slack Cycle, Characteristics and Importance of \mathcal{C}_4 Plants.	
	B-30	Source of oxygen released in photosynthesis process, factors affecting photosynthesis, limiting factor, rate of photosynthesis,	
		importance of photosynthesis process in living world.	
	B-31	Respiration, aerobic respiration, steps of aerobic respiration (glycolysis, oxidation of pyruvic acid, Krebs cycle, electron transport and	
		oxidative phosphorylation).	
	B-32	Anaerobic Respiration, use of anaerobic respiration in various industries, respiration rate/quotient, factors affecting respiration,	
		importance of respiration.	

Zoology (Reference Book: UDVASH Parallel Text)		
Chapter	Lecture	Syllabus
Chapter 7	Z-27	Skeletal system (classification, function, elements, classification), bones of the mature human skeleton.
Chapter-7	Z-28	Axial skeleton.
Human Physiology:	Z-29	Appendicular skeletor.
Locomotion and	Z-30	Bone, Haversian system, cartilage, types of cartilage.
body movement	Z-31	Musclar tissue, types of muscle, muscles can pull but cannot pushed.
body movement	Z-32	The 'rods and levers' system, bone and muscle coordination in the knee joint, fractures and first aid, joint injuries and first aid.

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