

# SCHEME OF STUDIES (LMS) Revised

# MDCAT/LMDCAT (PHASE I) Virtual @ KIPSLMS

DAY #	DATE & DAY	BIOLOGY		PHYSICS		CHEMISTRY		ENGLISH	
		PREPARATION	PRACTICE	PREPARATION	PRACTICE	PREPARATION	PRACTICE	PREPARATION	PRACTICE
<b>SESSION ORIENTATION</b>									
1	05-06-2020 (Friday)	<b>TOPIC-1 THE CELL (CH. 4)</b> Microscopy, Plant and Animal Cell, Prokaryotic and Eukaryotic Cell, Plasma Membrane	10	<b>TOPIC-1 MEASUREMENTS (CH. 1)</b> Physical Quantities, International System of Units, Convention for Indicating Units	10	<b>TOPIC 1A FUNDAMENTAL CONCEPTS (CH 1+9)</b> Relative Masses, Isotopes, Mole, Avogadro's Number	10	ORINATION LECTURE INTRODUCTION TO GRAMMER	
2	06-06-2020 (Saturday)	Nucleus, Ribosomes, Endoplasmic Reticulum, Golgi Apparatus, Lysosomes, Vacuoles	10	Errors and Uncertainties, Precision and Accuracy, Assessment of Total Uncertainty in the Final Result	10	Empirical & Molecular Formulae, Stoichiometric Calculations	10	Agreement Mistakes	10
<b>HOLIDAY</b>									
3	08-06-2020 (Monday)	Centriole, Cytoskeleton (Microtubules), Mitochondria, Chloroplast	10	<b>Test Level-1 (Measurements) Test Level-2 (Measurements)</b>	50	Concentration Units of Solutions, Percentage Composition, Molarity, Mole Fraction	10	Agreement Mistakes	10
4	09-06-2020 (Tuesday)	<b>Test Level-1 (The Cell) Test Level-2 (The Cell)</b>	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (MEASUREMENT) TOPIC-2 MOTION AND FORCE (CH. 2+3)</b> Distance and Displacement, Speed and Velocity, Acceleration, Velocity Time Graph, Equations of Uniformly Accelerated Motion, Newton's Laws of Motion, Momentum, Law of Conservation of Momentum	10	<b>Test Level-1 (Fundamental Concepts) Test Level-2 (Fundamental Concepts)</b>	50	<b>Test Level-1 (Agreement Mistakes) Test Level-2 (Agreement Mistakes)</b>	50
5	10-06-2020 (Wednesday)	<b>DISCUSSION LECTURE TEST LEVEL-2 (THE CELL) TOPIC-2 BIOLOGICAL MOLECULES (CH. 2+3)</b> Biological Molecules Importance of Water, Carbohydrates	10	Impulse, Elastic and Inelastic Collisions, Projectile Motion, Application to Ballistic Missiles	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (FUNDAMENTAL CONCEPTS) TOPIC 2A STATES OF MATTER (CH 3 + 4)</b> Gaseous State, General Gas Equation (PV=n RT)	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (AGREEMENT MISTAKES) Sentence Completion</b>	10
6	11-06-2020 (Thursday)	Lipids, Proteins, Nucleic Acid	10	Torque, Equilibrium, Equilibrium of forces & Torques	10	Liquid State, Evaporation, Vapor Pressure, Boiling, Structure of Ice	10	Sentence Completion	10
7	12-06-2020 (Friday)	Introduction to Enzymes Characteristics of Enzymes Mechanism of Enzyme action Factors Affecting The Rate of Enzymatic Action, Enzyme Inhibitors	10	<b>Test Level-1 (Motion &amp; Force) Test Level-2 (Motion &amp; Force)</b>	50	Lattice Structure of a Crystalline Solid	10	<b>Test Level-1 (Sentence Completion) Test Level-2 (Sentence Completion)</b>	50
8	13-06-2020 (Saturday)	<b>Test Level-1 (Biological Molecules) Test Level-2 (Biological Molecules)</b>	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (MOTION AND FORCE) TOPIC-3 WORK AND ENERGY (CH. 4)</b> Work Done by a Constant Force & a Variable Force, Power, Work-Energy Principle	10	<b>Test Level-1 ( States of Matter) Test Level-2 ( States of Matter)</b>	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (SENTENCE COMPLETION) Vocabulary UHS Words (1-25)</b>	10
<b>HOLIDAY</b>									
9	15-06-2020 (Monday)	<b>DISCUSSION LECTURE TEST LEVEL-2 (BIOLOGICAL MOLECULES) TOPIC-3 CHROMOSOME &amp; DNA (CH. 20)</b> Chromosome, DNA Replication (Models), The Meselson-Stahl Experiment, The Replication Process	10	Energy, kinetic energy and potential energy, Inter conversion of potential energy and kinetic energy	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (STATES OF MATTER) TOPIC 3A ATOMIC STRUCTURE (CH 5)</b> Proton, Neutron and Electron, Distribution of Mass & Charges, Deduce the Number of Z, n and e- from Given Z and A Values, Shape of s, p and d-Orbitals	10	<b>Test Level-1 (Vocabulary 1-25) Test Level-2 (Vocabulary 1-25)</b>	50
10	16-06-2020 (Tuesday)	Role of RNA, Transcription, Genetic Code, Translation	10	<b>Test Level-1 (Work &amp; Energy) Test Level-2 (Work &amp; Energy)</b>	50	Electronic Configuration, Ionization Energy, Electron Affinity	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 1-25) Combination Mistakes</b>	10
11	17-06-2020 (Wednesday)	<b>Test Level-1 (Chromosome &amp; DNA) Test Level-2 (Chromosome &amp; DNA)</b>	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (WORK AND ENERGY) TOPIC-4 CIRCULAR MOTION (CH. 5)</b> Angular Displacement, Velocity & Acceleration, Relation of Linear and Angular Quantities	10	<b>Test Level-1 ( Atomic Structure) Test Level-2 ( Atomic Structure)</b>	50	Combination Mistakes	10

12	18-06-2020 (Thursday)	DISCUSSION LECTURE TEST LEVEL-2 (CHROMOSOME & DNA) TOPIC-4 CELL DIVISION (CH. 21) Interphase, Mitosis, Importance of Mitosis	10	Centripetal Force, Vertical Circle, Geostationary Orbits	10	DISCUSSION LECTURE TEST LEVEL-2 (ATOMIC STRUCTURE) TOPIC 4A CHEMICAL BONDING (CH 6) Ionic (Electrovalent) Bond, Use the "dot and cross" Model for Covalent & Co-ordinate (Dative Covalent) Bonding, Shapes and Bond Angles of Molecules	10	Test Level-1 (Combination Mistakes) Test Level-2 (Combination Mistakes)	50
13	19-06-2020 (Friday)	Meiosis, Importance of Meiosis	10	Test Level-1 (Circular Motion) Test Level-2 (Circular Motion)	50	Covalent Bonding (VBT), Bond Energy, Bond Length & Bond Polarity, Intermolecular Forces (especially Hydrogen Bonding), Interpret and Predict Effect of Bonding on Physical Properties	10	DISCUSSION LECTURE TEST LEVEL-2 (COMBINATION MISTAKES) Vocabulary UHS Words (26-50)	10
14	20-06-2020 (Saturday)	Test Level-1 (Cell Division) Test Level-2 (Cell Division)	40	DISCUSSION LECTURE TEST LEVEL-2 (CIRCULAR MOTION) TOPIC-5 OSCILLATION (CH. 7) SHM and Oscillations, Amplitude, Time Period, Frequency and Angular Frequency, Vibration, SHM and Uniform Circular Motion, Instantaneous Displacement, Velocity & Acceleration, Phase	10	Test Level-1 (Chemical Bonding) Test Level-2 (Chemical Bonding)	50	Test Level-1 (Vocabulary 26-50) Test Level-2 (Vocabulary 26-50)	50
21-06-2020 (Sunday) HOLIDAY									
15	22-06-2020 (Monday)	DISCUSSION LECTURE LECTURE TEST LEVEL-2 (CELL DIVISION) TOPIC-15 VARIETY OF LIFE (CH. 5) 2-5 Kingdom Classification Systems, Characteristics, Structure and Classification of Viruses, HIV/ AIDS	10	A Horizontal Mass Spring Aystem, Simple Pendulum & Second's Pendulum	10	DISCUSSION LECTURE TEST LEVEL-2 (CHEMICAL BONDING) TOPIC 5A CHEMICAL ENERGETICS (CH 7) Concept of Energy Changes, Use the Terms Enthalpy, Bond energy, Numerical Magnitude of Lattice Energy, Hess's law	10	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 26-50) Miscellaneous Mistakes	10
16	23-06-2020 (Tuesday)	FLP-1 (QUARTER TEST-1) TOPIC 1-4	60	FLP-1 (QUARTER TEST-1) TOPIC 1-4	60	FLP-1 QUARTER TEST-1 (1A-4A)	60	FLP-1 (QUARTER TEST-1) (Agreement Mistakes, Sentence Completion, Combination Mistakes, Vocabulary 1-50)	20
17	24-06-2020 (Wednesday)	DISCUSSION LECTURE FLP-1 (QUARTER TEST-1) 1-4 TOPIC-6 BIOENERGETICS (CH. 11) Introduction, Photosynthetic Reactants and Products, Photosynthetic Pigments, Light-The Driving Energy	10	DISCUSSION LECTURE FLP-1 (QUARTER TEST-1) (1-4) Energy Conservation in SHM, Free and Forced Oscillations, Resonance, Damped Oscillations, Sharpness of Resonance	10	DISCUSSION LECTURE FLP-1 QUARTER TEST-1 (1A-4A) TOPIC 6A ELECTROCHEMISTRY (CH 10) Redox Processes, Oxidation Numbers of Elements, Balancing Chemical Equations by Redox Method, Standard Electrode Potential	10	DISCUSSION LECTURE FLP-1 QUARTER TEST-1 Miscellaneous Mistakes	10
18	25-06-2020 (Thursday)	Test Level-1 (Variety of Life) Test Level-2 (Variety of Life)	40	TOPIC-6 WAVES (CH. 8) Progressive Wave, Transverse and Longitudinal Waves, Periodic Wave, Principle of Superposition, Stationary Waves & in a Stretched String	10	Test Level-1 (Chemical Energetics) Test Level-2 (Chemical Energetics)	50	Test Level-1 (Miscellaneous Mistakes) Test Level-2 (Miscellaneous Mistakes)	50
19	26-06-2020 (Friday)	DISCUSSION LECTURE TEST LEVEL-2 (VARIETY OF LIFE) Light Dependent Reactions, Chemiosmosis, Light Independent Reactions	10	Test Level-1 (Oscillation) Test Level-2 (Oscillation)	50	DISCUSSION LECTURE TEST LEVEL-2 (CHEMICAL ENERGETICS) SHE, Methods to Measure Standard Electrode Potentials of Metals, Standard Cell Potential, Electrode Potential, Construct Redox Equations, Advantages of Fuel Cell	10	DISCUSSION LECTURE TEST LEVEL-2 (MISCELLANEOUS MISTAKES) Vocabulary Words (51-75)	10
20	27-06-2020 (Saturday)	Respiration (Introduction), Anaerobic Respiration and Its Types, Glycolysis	10	DISCUSSION LECTURE TEST LEVEL-2 (OSCILLATION) Stationary Waves in Air Columns, in Open Organ Pipe & in Closed Organ Pipe, Doppler Effect & its Applications, Electromagnetic Spectrum	10	Test Level-1 (Electrochemistry) Test Level-2 (Electrochemistry)	50	Test Level-1 (Vocabulary 51-75) Test Level-2 (Vocabulary 51-75)	50
28-06-2020 (Sunday) HOLIDAY									
21	29-06-2020 (Monday)	Pyruvic Acid Oxidation, Krebs Cycle, Respiratory Chain, Oxidative Phosphorylation	10	Test Level-1 (Waves) Test Level-2 (Waves)	50	DISCUSSION LECTURE TEST LEVEL-2 (ELECTROCHEMISTRY) TOPIC 7A CHEMICAL EQUILIBRIUM (CH 8) Rates of Forward & Reverse Reactions & Dynamic Equilibrium, Le- Chatelier's Principle, Deduce Expression for Equilibrium Constant	10	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 51-75) Verb & Tenses	10

22	30-06-2020 (Tuesday)	Test Level-1 (Bioenergetics) Test Level-2 (Bioenergetics)	50	DISCUSSION LECTURE TEST LEVEL-2 (WAVES) TOPIC-7 LIGHT (CH. 9) Interference of Light Waves ,Young's Double Slit Experiment	10	Calculate the Values of Kc, Calculate the Equilibrium Quantities, Conditions used in Haber Process, Qualitative Differences in Behavior of Strong/Weak Acids and Bases	10	Verb & Tenses	10
23	01-07-2020 (Wednesday)	DISCUSSION LECTURE TEST LEVEL-2 (BIOENERGETICS) TOPIC-7 GAS EXCHANGE (CH. 13) Respiration in Man, Role of Respiratory Pigments	10	Diffraction of Light, Diffraction Grating	10	Terms: pH, Ka, pKa, Kb, pKb, Kw and Ksp, [H+ (aq)], [OH- (aq)], pH and pOH Values for Strong and Weak Acids and Bases	10	Test Level-1 (Verb & Tenses) Test Level-2 (Verb & Tenses)	50
24	02-07-2020 (Thursday)	Transport of Oxygen, Transport of Carbon Dioxide, Respiratory Disorders (Cancer ,Tuberculosis ,Emphysema )	10	Test Level-1 (Light) Test Level-2 (Light)	50	Test Level-1 (Chemical Equilibrium) Test Level-2(Chemical Equilibrium)	50	DISCUSSION LECTURE TEST LEVEL-2 (VERB & TENSES) Vocabulary UHS Words (76-100)	10
25	03-07-2020 (Friday)	Test Level-1(Gas Exchange) Test Level-2(Gas Exchange)	50	DISCUSSION LECTURE TEST LEVEL-2 (LIGHT) TOPIC-8 HEAT AND THERMODYNAMICS (CH. 11) Kinetic Theory of Gases, Pressure of Gas, Interpretation of Temperature, Derivation of Gas Laws	10	DISCUSSION LECTURE TEST LEVEL-2 (CHEMICAL EQUILIBRIUM) TOPIC 8A CHEMICAL KINETICS (CH 11) Rate of Reaction, Activation Energy, Catalysis, Rate Equation, Order of Reaction, Rate Constant, Collisions Theory, Enzymes as Biological Catalysts	10	Test Level-1 (Vocabulary 76-100) Test Level-2 (Vocabulary 76-100)	50
26	04-07-2020 (Saturday)	DISCUSSION LECTURE TEST LEVEL-2 (GAS EXCHANGE) TOPIC-8 TRANSPORT IN PLANTS (CH. 14) Uptake and Transport of Minerals and Water by Roots, Cohesion Tension Theory, Types of Transpiration	10	Internal Energy, Molar Specific Heats of a Gas, Derivation of Cp – Cv = R	10	Construct and Use Rate Equations with Special Emphasis on Zero Order, 1st Order & 2nd Order Reaction, Half-life of First Order Reaction, Calculate the Order of Reaction & Rate Constant, Method for Studying the Rate of a Reaction	50	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 76-100) Adjective	10
<b>05-07-2020 (Sunday) HOLIDAY</b>									
27	06-07-2020 (Monday)	Factors Affecting Rate of Transpiration, Opening and Closing of Stomata, Translocation of Organic Solutes (Phloem Transport), Xerophytes	10	Test Level-1 (Heat and Thermodynamics) Test Level-2 (Heat and Thermodynamics)	50	Test Level-1 (Chemical Kinetics) Test Level-2 (Chemical Kinetics)	50	Adjective	10
28	07-07-2020 (Tuesday)	Test Level-1 (Transport in Plants) Test Level-2 (Transport in Plants)	40	DISCUSSION LECTURE TEST LEVEL-2 (HEAT AND THERMODYNAMICS) TOPIC-9 ELECTROSTATIC (CH. 12) Coulomb's Law, Fields of Force, Electric Field Lines, Electric Potential, Electric Field as Potential Gradient	10	DISCUSSION LECTURE TEST LEVEL-2 (CHEMICAL KINETICS) TOPIC 1B PERIODS (CH 1 B-II) Variation in the Physical Properties of Elements Belonging to Period 2 & 3, Atomic Radius, Ionic Radius, MPT, BPT, IE, EN, EA, Electrical Conductivity, O.S, Hydration Energy, Periodic Relationship in Binary compounds, Halides (especially chlorides), Oxides	10	Test Level-1 (Adjective) Test Level-2 (Adjective)	50
29	08-07-2020 (Wednesday)	DISCUSSION LECTURE TEST LEVEL-2 (TRANSPORT IN PLANTS) TOPIC-9 TRANSPORT IN HUMAN (CH. 14) The Circulatory Fluid- The Blood, Blood Vessels, Pumping Organ-The Heart	10	Electric Potential at a Point due to a Point Charge, Electron Volt and Comparison of Gravitational and Electric Forces, Capacitor, Electric Polarization of Dielectrics, Energy Stored in a Capacitor	10	Test Level-1 (Periods) Test Level-2 (Periods)	10	DISCUSSION LECTURE TEST LEVEL-2 (ADJECTIVE)	
30	09-07-2020 (Thursday)	FLP-2 QUARTER TEST-2 (5-8)	60	FLP-2 QUARTER TEST-2 (5-8)	60	DISCUSSION LECTURE TEST LEVEL-2 (PERIODS) FLP-2 QUARTER TEST-2 (5A-8A)	60	FLP-2 QUARTER TEST-2 (Miscellaneous Mistakes, Verb & Tenses, Adjective, Vocabulary 51-100)	20
31	10-07-2020 (Friday)	DISCUSSION LECTURE FLP-2 QUARTER TEST-2 (5-8)	60	DISCUSSION LECTURE FLP-2 QUARTER TEST-2 (5-8)	60	DISCUSSION LECTURE FLP-2 QUARTER TEST-2 (5A- 8A)	60	DISCUSSION LECTURE FLP-2 QUARTER TEST-2	20
		FLP-3 HALF SYLLABUS-1 (1-8)		FLP-3 HALF SYLLABUS TEST-1 (1-8)		FLP-3 HALF SYLLABUS-1 (1A-8A)		FLP-3 HALF SYLLABUS-1 (Agreement Mistakes, Sentence Completion, Combination Mistakes, Miscellaneous Mistakes, Verb & Tenses, Adjectives, Vocabulary 1-100)	
32	11-07-2020 (Saturday)	DISCUSSION LECTURE FLP-3 HALF SYLLABUS TEST-1 (1-8) Heart Excitation and Conduction, The Cardiac Cycle and Electrocardiogram, Blood Pressure and Rate of Blood Flow, Lymphatic System	10	DISCUSSION LECTURE FLP-3 HALF SYLLABUS-1 (1-8)	10	DISCUSSION LECTURE FLP-3 HALF SYLLABUS-1 (1A-8A) TOPIC 2B GROUPS (CH 2,5 B-II) The Variation in Properties of Group II & VII Elements, Reactions , Thermal Decomposition & Solubility of Compounds of Group II Elements, Properties of Halogens and Their Compounds	10	DISCUSSION LECTURE FLP-3 HALF SYLLABUS-1 Vocabulary UHS Words (101-125)	10
				Test Level-1 (Electrostatic) Test Level-2 (Electrostatic)	50				

12-07-2020 (Sunday)				HOLIDAY					
33	13-07-2020 (Monday)	Test Level-1 (Transport in Human) Test Level-2 (Transport in Human)	50	DISCUSSION LECTURE TEST LEVEL-2 (ELECTROSTATIC) TOPIC-10 CURRENT ELECTRICITY (CH. 13) Electric Current, Current through a Metallic Conductor, Ohm's Law	10	Variation in Properties of Group II and VII Elements, Reaction of Chlorine, Comparison of Oxidizing Power of Halogens, Uses of Halogens & Their Compounds	10	Test Level-1 (Vocabulary 101-125) Test Level-2 (Vocabulary 101-125)	50
34	14-07-2020 (Tuesday)	DISCUSSION LECTURE TEST LEVEL-2 (TRANSPORT IN HUMAN) TOPIC-10 IMMUNITY (CH. 14) Immune System and its Components, Immune Responses, Types of Immunity and Vaccination	10	Combinations of Resistors, Resistivity and its Dependence upon Temperature, Electric Power and Power Dissipation in Resistors	10	Test Level-1 (Groups) Test Level-2 (Groups)	50	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 101-125) Adverb	10
35	15-07-2020 (Wednesday)	Test Level-1 (Immunity) Test Level-2 (Immunity)	40	E.M.F and Terminal Potential Difference, Maximum Power Output, Kirchoff's First and Second Rule, Wheatstone Bridge, Potentiometer	10	DISCUSSION LECTURE TEST LEVEL-2 (GROUPS) TOPIC 3B TRANSITION ELEMENTS (CH 6 B-II) Chemistry of Transition Elements of 3d Series, Electronic Configuration, Variable Oxidation States, Uses as a Catalyst Formation of Complexes, Colour of Transition Metal, Complexes, Geometry and Isomerism of Complex Ions with Coordination # 4 and 6	10	Adverb	10
36	16-07-2020 (Thursday)	DISCUSSION LECTURE TEST LEVEL-2 (IMMUNITY) TOPIC-11 HOMEOSTASIS (CH. 15) Concepts in Homeostasis, Thermoregulatory Strategies in Animals, Thermoregulation in Mammals/Humans)	10	Test Level-1 (Current Electricity) Test Level-2 (Current Electricity)	50	Test Level-1 (Transition Elements) Test Level-2 (Transition Elements)	50	Test Level-1 (Adverb) Test Level-2 (Adverb)	50
37	17-07-2020 (Friday)	Human Urinary System, Concentration of Excretory Products, Role of Hormones	10	DISCUSSION LECTURE TEST LEVEL-2 (CURRENT ELECTRICITY) TOPIC-11 ELECTROMAGNETISM (CH. 14) Magnetic Field due to Current in a Long Straight Wire, Force on a Current Carrying Conductor in a Uniform Magnetic Field	10	DISCUSSION LECTURE TEST LEVEL-2 (TRANSITION ELEMENTS) TOPIC 4B COMPOUNDS OF N AND S (CH 4,15,16 B-II) Nitrogenous Fertilizers, Presence of SO <sub>2</sub> in Atmosphere, Manufacturing of H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> SO <sub>4</sub> as Dehydrating & Oxidizing Agent	10	DISCUSSION LECTURE TEST LEVEL-2 (ADVERB) Vocabulary UHS Words (126-150)	10
38	18-07-2020 (Saturday)	Test Level-1 (Homeostasis) Test Level-2 (Homeostasis)	50	Force on a Moving Charge in a Magnetic Field, Motion of Charged Particle in Electric and Magnetic Field, Determination of e/m of an electron	10	Test Level-1 (Compounds of N and S) Test Level-2 (Compounds of N and S)	50	Test Level-1 (Vocabulary 126-150) Test Level-2 (Vocabulary 126-150)	50
19-07-2020 (Sunday)				HOLIDAY					
39	20-07-2020 (Monday)	DISCUSSION LECTURE TEST LEVEL-2 (HOMEOSTASIS) TOPIC-12 MUSCLE & MOVEMENT (CH. 16) Muscles & Types, Skeletal Muscles, Energy for Muscle Contraction, Effect of Exercise on Muscle	10	Test Level-1 (Electromagnetism) Test Level-2 (Electromagnetism)	50	DISCUSSION LECTURE TEST LEVEL-2 (COMPOUNDS OF N AND S) TOPIC 1C FUNDAMENTAL PRINCIPLES (CH. 7 B-II) Organic Compounds. Alkanes & Alkenes of Lower Masses. Nucleophiles, Electrophiles & Free Radicals, Isomerism, Functional Group and Nomenclature of OC	10	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 126-150) Preposition	10
40	21-07-2020 (Tuesday)	Test Level-1 (Muscles & Movement) Test Level-2 (Muscles & Movement)	50	DISCUSSION LECTURE TEST LEVEL-2 (ELECTROMAGNETISM) TOPIC-12 ELECTROMAGNETIC INDUCTION (CH. 15+16) Magnetic Flux and Flux Density, Induced EMF and Induced Current, Faraday's Law	10	Test Level-1 (Fundamental Principles) Test Level-2 (Fundamental Principles)	50	Preposition	10
41	22-07-2020 (Wednesday)	DISCUSSION LECTURE TEST LEVEL-2 (MUSCLES & MOVEMENT) TOPIC-13 COMMUNICATION (CH. 17) Nervous coordination, Neurons & its Types, Reflex Action and Reflex Arc, Nerve Impulse, Synapse	10	Lenz's Law, Transformer, Alternating Current, Time Period, Frequency, Peak Value and Root Mean Square Value of Alternating Current or Voltage	10	DISCUSSION LECTURE TEST LEVEL-2 (FUNDAMENTAL PRINCIPLES) TOPIC 2-C HYDROCARBONS (CH. 8, 9 B-II) Chemistry of Alkanes with Emphasis on Combustion, The Mechanism of Free Radical Substitution Reaction, Chemistry of Alkenes with Emphasis on, Preparation & Reactions of Alkenes	10	Test Level-1 (Preposition) Test Level-2 (Preposition)	50
42	23-07-2020 (Thursday)	Glands & Hormones, Islets of Langerhans (Pancreas), Auxins, Gibberellins, Abscisic Acid	10	Test Level-1 (Electromagnetic Induction) Test Level-2 (Electromagnetic Induction)	50	Test Level-1 (Hydrocarbons) Test Level-2 (Hydrocarbons)	50	DISCUSSION LECTURE TEST LEVEL-2 (PREPOSITION) Vocabulary UHS Words (151-175)	10

43	24-07-2020 (Friday)	Test Level-1 (Communication) Test Level-2 (Communication)	50	DISCUSSION LECTURE TEST LEVEL-2 (ELECTROMAGNETIC INDUCTION) TOPIC-13 DEFORMATION OF SOLID (CH. 17) Mechanical Properties of Solids, Deformation in Solids, Stress and Strain (Hook's law), Elastic Constants	10	DISCUSSION LECTURE TEST LEVEL-2 (HYDROCARBONS) Chemistry of Benzene, Electrophilic Substitution Reactions & Mechanism, Hydrogenation of Benzene Ring, Side Chain Oxidation of Methyl Benzene & Ethyl Benzene, Benzene Ring by 2,4 Directing and 3,5 Directing Groups	10	Test Level-1 (Vocabulary 151-175) Test Level-2 (Vocabulary 151-175)	50
44	25-07-2020 (Saturday)	FLP-4 QUARTER TEST-3 (9-12)	60	FLP-4 QUARTER TEST-3 (9-12)	60	FLP-4 QUARTER TEST-3 (1B-2C)	60	FLP-4 QUARTER TEST-3 (Adverb, Preposition, Vocabulary 101-150)	20
26-07-2020 (Sunday) HOLIDAY									
45	27-07-2020 (Monday)	DISCUSSION LECTURE FLP-4 (QUARTER TEST-3) (9-12) TOPIC-14 REPRODUCTION (CH. 18) Spermatogenesis, Oogenesis, Human Menstrual Cycle	10	DISCUSSION LECTURE FLP-4 QUARTER TEST-3 (9-12)	10	DISCUSSION LECTURE FLP-4 QUARTER TEST-3 (1B-2C) TOPIC 3C ALKYL HALIDES (CH 10 B-II) Importance of Halogenoalkanes, Reaction of Alkyl Halides, Nucleophilic Substitution Reactions and Mechanisms	10	DISCUSSION LECTURE FLP-4 (QUARTER TEST-3) Noun	10
46	28-07-2020 (Tuesday)	DISCUSSION LECTURE TEST LEVEL-2 (COMMUNICATION) Test Level-1 (Reproduction) Test Level-2 (Reproduction)	40	Elastic Limits & Yield Strength, Strain Energy in Deformed Materials, Energy Band Theory	10	Test Level-1 (Alkyl Halides ) Test Level-2 (Alkyl Halides )	50	DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 126-150) Noun	10
47	29-07-2020 (Wednesday)	DISCUSSION LECTURE TEST LEVEL-2 (REPRODUCTION) TOPIC-15 GENETICS (CH. 22) Gene, Alleles & Gene Pool, Law of Segregation, Test Cross, Law of Independent Assortment	10	Test Level-1 (Deformation of Solid) Test Level-2 (Deformation of Solid)	50	DISCUSSION LECTURE TEST LEVEL-2 (ALKYL HALIDES) TOPIC 4C ALCOHOLS AND PHENOLS (CH 11 B-II) Classification of Alcohol, Preparation of Ethanol, Reactions of Alcohols & Phenols, Acidity of Water, Ethanol and Phenol	10	Test Level-1 (Noun) Test Level-2 (Noun)	50
30-07-2020 (Thursday) 31-07-2020 (Friday) 01-08-2020 (Saturday) 02-08-2020 (Sunday) EID HOLIDAYS HOLIDAY									
48	03-08-2020 (Monday)	Dominance Relations, Gene Linkage, Crossing Over, Recombination Frequency	10	DISCUSSION LECTURE TEST LEVEL-2 (DEFORMATION OF SOLID) TOPIC-14 ELECTRONICS (CH. 18) Rectification, Half & Full Wave Rectification, Operational Amplifier and its Characteristics	10	Test Level-1 (Alcohols and phenols ) Test Level-2 (Alcohols and phenols )	50	DISCUSSION LECTURE TEST LEVEL-2 (NOUN) Article	10
49	04-08-2020 (Tuesday)	Continuously Varying Traits, Sex Linkage in Humans, Genetics of Colour Blindness & Haemophilia	10	Test Level-1 (Electronics) Test Level-2 (Electronics)	50	DISCUSSION LECTURE TEST LEVEL-2 (ALCOHOLS AND PHENOLS) TOPIC 5-C ALDEHYDES AND KETONES (CH 12 B-II) Structure , Preparation & Reactions of Aldehydes and Ketones, Nucleophilic Addition Reaction Mechanism	10	Article	10
50	05-08-2020 (Wednesday)	Test Level-1 (Genetics) Test Level-2 (Genetics)	50	DISCUSSION LECTURE TEST LEVEL-2 (ELECTRONICS) TOPIC-15 MODERN PHYSICS (CH. 19+20) Photons, Photo-electric Effect, Photo Cell	10	Test Level-1 (Aldehydes and Ketones) Test Level-2 (Aldehydes and Ketones)	50	Test Level-1 (Article) Test Level-2 (Article)	50

51	06-08-2020 (Thursday)	<b>DISCUSSION LECTURE TEST LEVEL-2 (GENETICS) TOPIC 16 BIOTECHNOLOGY (CH. 23)</b> Recombinant DNA Technology, Polymerase Chain Reaction	10	Wave Nature of Particles, Davison and Germer Experiment, Atomic Spectrum of Hydrogen, Bohr's Model of Hydrogen Atom, Quantized Radii, Quantized Energy	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (ALDEHYDES AND KETONES) TOPIC 6C CARBOXYLIC ACIDS (CH. 13 B-II)</b> Physical Properties & Reactions of Carboxylic Acids, Relative Acidic Strength.	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (ARTICLE)</b> Vocabulary UHS Words (176-208)	10
52	07-08-2020 (Friday)	Analyzing DNA, Gene Therapy, Transgenic Bacteria, Animals, Plants	10	Hydrogen Emission of Spectrum, Inner Shell Transitions and Characteristic X-Rays, Properties and Uses of X-Rays, Braking X-Rays (Continuous X-rays)	10	Test Level-1 (Carboxylic Acids) Test Level-2 (Carboxylic Acids)	50	Test Level-1 (Vocabulary 176-208) Test Level-2 (Vocabulary 176-208)	50
53	08-08-2020 (Saturday)	Test Level-1 (Biotechnology) Test Level-2 (Biotechnology)	50	Test Level-1 (Modern Physics) Test Level-2 (Modern Physics)	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (CARBOXYLIC ACIDS) TOPIC 7C AMINO ACIDS (CH 13 B-II)</b> General Structure of Amino Acids Found in Proteins, Classification of AA, Zwitter Ion, Acid Base Properties of AA, Peptide Bond Formation.	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (VOCABULARY 176-208)</b> Pronoun	10
<b>09-08-2020 (SUNDAY) HOLIDAY</b>									
54	10-08-2020 (Monday)	<b>DISCUSSION LECTURE TEST LEVEL-2 (BIOTECHNOLOGY) TOPIC 17 EVOLUTION (CH. 24)</b> Theory of Natural Selection, Allelic Frequencies & Hardy-Weingberg Law & Factors	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (MODERN PHYSICS) TOPIC 16 NUCLEAR PHYSICS (CH. 21)</b> Atomic Nucleus, Isotopes, Mass Defect and Binding Energy, Radioactivity, Nuclear Transmutation	10	Test Level-1 (Amino Acids) Test Level-2 (Amino Acids)	50	Test Level-1 (Pronoun) Test Level-2 (Pronoun)	50
						<b>TOPIC 8C MACROMOLECULES (CH 14 B-II)</b> Addition & Condensation Polymerization, Structure of Proteins& Nucleic acid (DNA)	10		
55	11-08-2020 (Tuesday)	Test Level-1 (Evolution) Test Level-2 (Evolution)	40	Half Life, Acitivity, Decay Constant, Nuclear Fission, Fission Chain Reaction, Fusion Reaction, Building Blocks of Matter	10	<b>DISCUSSION LECTURE TEST LEVEL-2 (AMINO ACIDS)</b> Test Level-1 (Macromolecules) Test Level-2 (Macromolecules)	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (PRONOUN)</b>	
56	12-08-2020 (Wednesday)	<b>DISCUSSION LECTURE TEST LEVEL-2 (EVOLUTION)</b>		Test Level-1 (Nuclear Physics) Test Level-2 (Nuclear Physics)	50	<b>DISCUSSION LECTURE TEST LEVEL-2 (MACROMOLECULES) TOPIC 9C ENVIRONMENTAL CHEMISTRY (CH 16 B-II)</b> Air Pollutants, Chemistry and Causes of Acid Rain, Ozone and Chlorofluorocarbons (CFCs)	10		
57	13-08-2020 (Thursday)					Test Level-1 (Environmental Chemistry) Test Level-2 (Environmental Chemistry)	50		
58	14-08-2020 (Friday)	FLP-5 QUARTER TEST-4 (13-17)	60	<b>DISCUSSION LECTURE TEST LEVEL-2 (NUCLEAR PHYSICS)</b> FLP-5 QUARTER TEST-4 (13-16)	60	<b>DISCUSSION LECTURE TEST LEVEL-2 (ENVIRONMENTAL CHEMISTRY)</b> FLP-5 QUARTER TEST-4 (3C-9C)	60	FLP-5 QUARTER TEST-4 (Noun, Pronoun, Article, Vocabulary 151-208)	20
59	15-08-2020 (Saturday)	<b>DISCUSSION LECTURE FLP-5 QUARTER TEST-4 (13-17)</b> FLP-6 HALF SYLLABUS-2 (9-17)	60	<b>DISCUSSION LECTURE FLP-5 QUARTER TEST-4 (13-16)</b> FLP-6 HALF SYLLABUS-2 (9-16)	60	<b>DISCUSSION LECTURE FLP-5 QUARTER TEST-4 (3C-9C)</b> FLP-6 HALF SYLLABUS-2 (1B-9C)	60	<b>DISCUSSION LECTURE FLP-5 QUARTER TEST-4</b> FLP-6 HALF SYLLABUS-2 (Adverb, Preposition, Noun, Pronoun, Article, Vocabulary 101-208)	20
<b>16-08-2020 (Sunday) HOLIDAY</b>									
60	17-08-2020 (Monday)	<b>DISCUSSION LECTURE FLP-6 HALF SYLLBUS-2 (9-17)</b> FLP-7 COMPLETE SYLLABUS	80	<b>DISCUSSION LECTURE FLP-6 HALF SYLLANUS-2 (9-16)</b> FLP-7 COMPLETE SYLLABUS	40	<b>DISCUSSION LECTURE FLP-6 HALF SYLLABUS-2 (1B-9C)</b> FLP-7 COMPLETE SYLLABUS	60	<b>DISCUSSION LECTURE FLP-6 HALF SYLLABUS-2</b> FLP-7 COMPLETE SYLLABUS	20
61	18-08-2020 (Tuesday)	<b>DISCUSSION LECTURE FLP-7 COMPLETE SYLLABUS</b> FLP-8 COMPLETE SYLLABUS	80	<b>DISCUSSION LECTURE FLP-7 COMPLETE SYLLABUS</b> FLP-8 COMPLETE SYLLABUS	40	<b>DISCUSSION LECTURE FLP-7 COMPLETE SYLLABUS</b> FLP-8 COMPLETE SYLLABUS	60	<b>DISCUSSION LECTURE FLP-7 COMPLETE SYLLABUS</b> FLP-8 COMPLETE SYLLABUS	20
62	19-08-2020 (Wednesday)	<b>DISCUSSION LECTURE FLP-8 COMPLETE SYLLABUS</b> FLP-9 COMPLETE SYLLABUS	80	<b>DISCUSSION LECTURE FLP-8 COMPLETE SYLLABUS</b> FLP-9 COMPLETE SYLLABUS	40	<b>DISCUSSION LECTURE FLP-8 COMPLETE SYLLABUS</b> FLP-9 COMPLETE SYLLABUS	60	<b>DISCUSSION LECTURE FLP-8 COMPLETE SYLLABUS</b> FLP-9 COMPLETE SYLLABUS	20
63	20-08-2020 (Thursday)	<b>DISCUSSION LECTURE FLP-9 COMPLETE SYLLABUS</b>		<b>DISCUSSION LECTURE FLP-9 COMPLETE SYLLABUS</b>		<b>DISCUSSION LECTURE FLP-9 COMPLETE SYLLABUS</b>		<b>DISCUSSION LECTURE FLP-9 COMPLETE SYLLABUS</b>	
<b>NOTE</b>		<b>Separate Schedule Would be Shared for Live Lectures &amp; Group Discussions</b>							