ETEA/ LETEA (Phase I)	5th June 2020 Session	SCHEDULED LIVE REVIEW LECTURES & EXERCISE SOLUTIONS KETS (FROM CAMPUSES)				LIVE Q&A & GROUP DISCUSSIONS	
REVISED ON 28 JUNE 2020							
DAY #	**DATE**	**DAY**	**BIOLOGY**	**PHYSICS**	**CHEMISTRY**	**ENGLISH**	
1	10-06-20	Wednesday	**ORINETATION (INTRODUCTION & GUIDELINES)**	**ORINETATION (INTRODUCTION & GUIDELINES)**	**ORINETATION (INTRODUCTION & GUIDELINES)**	**ORINETATION (INTRODUCTION & GUIDELINES)**	
2	11-06-20	Thursday	**1. CELL STRUCTURE & FUNCTIONS** 2. Techniques Used in Cell Biology 3.Cell Wall 4. Plasma Membrane 5. Cytoplasm	**1. MEASUREMENTS** 1. Introduction to physics 2. Physical quantities 3. International system of units 4. Base units 5. Supplementary units 6. Derived units 7. Scientific notation 8. Conventions for using SI units 9. Errors and uncertainties 10. Personal error 11. Systematic error 12. Random error 13. Rounding off numbers 14. Significant figures	**1. Stoichiometry** 1.Stiochiometery 2.Mole and Avogadro's number 3.Mole caculation 4. Percentage composition 5. Excess and limiting reagents 6. Theoretical yield and actual yield as percentage	AGREEMENT MISTAKES	
3	15-06-20	Monday	6. Cytoplasmic Organelles 7.Prokaryotic and Eukaryotic Cell	15. Precision and accuracy 16. Indicating uncertainty 17. Calculating uncertainty in the final result 18. Rule for addition and ubtractions 19. Product and quotient rule 20. Power of a quantity 21. Uncertainty in average values of many measurements 22. Uncertainty in timing experiment 23. Dimensions 24. Dimensions of physical quantities 25. Some terms used with dimensions 26. Advantages of dimensional analysis .	**2. Atomic Structure** 1.Atomic structure 2.Discharge tube experiments 3.Planck's quantum theory 4.Bohr's model	AGREEMENT MISTAKES	
4	16-06-20	Tuesday	**2. BIOLOGICAL MOLECULES** 1. Introduction 2. Fundamental Biological Molecules 3. Condensation and Hydrolysis 4. Biological Importance of Water 5. Carbohydrates	**2. Vector and Equilibrium** 1. Vectors 2. Cartesian coordinate system or rectangular coordinate system 3. Addition of vectors 4. Vector subtraction 5. Multiplication of a vector by a number or scalar 6. Resolution of vector 7. Addition of vectors by rectangular components	5.X-rays and atomic number 6.Quantum numbers and shapes of orbitals 7.Rules and Electronic Configuration	AGREEMENT MISTAKES	
5	17-06-20	Wednesday	6. Proteins 7. Lipids 8. Nucleic Acids and Nucleotides 9. Conjugated Molecules	8. Scalar product 9. Vector Product 10. Torque	**3. Theories of Covalent Bonds and Shapes of Molecules** 1.VSEPR Theory (Shapes and bond angles of molecules) 2. Resonance 3.Modren Theories of chemical bonding (VBT , Hybridization & MOT) 4.Bond characteristics [Bond energy, bond length and dipole moment (Polarity)] 5.Effect of bonding on physical and chemical properties	SENTENCE COMPLETION	
6	18-06-20	Thursday	**3. ENZYMES** 1. Introduction & Structure 2. How Do enzymes Work? 3. Cofactors 4. Enzyme Nomenclature 5. Factors That Affect The Rate of Enzyme action	11. Equilibrium 12. Conditions of Equilibrium 13. States of Equilibrium 14. Concurrent forces	**4. States of Matter-I Gases** 1.Gases, KMT of gases + Units of pressure 2.Ideal Gas Laws (Boyle's law & Charles' law) 3. Ideal Gas Equation 4. Avogaro's law		
7	22-06-20	Monday	**4. BIOENERGETICS** 1. Introduction 2. Photosynthesis (Role of Sunlight, Photosynthetic Pigments, Absorption & Action Spectrum, Role of Carbon Dioxide, Role of Water) 3. Mechanism of photosynthesis (Light Reactions, Dark Reactions)	**3. Motion and Force** 1. Vector nature of displacement 2. Velocity 3. Acceleration 4. Velocity-time graph 5. Displacement-time graph 6. Equations of uniformly accelerated and free-fall motion 7. Newton's laws of motion 8. linear Momentum 9. Impulse and change of momentum 10. Law of conservation of momentum	5.Ideal and non-ideal gases 6.van der Waals equation 7. Dalton's law of partial pressures 8. Dffusion of gases+ Graham's law 9. Liquefaction of gases	SENTENCE COMPLETION	
8	23-06-20	Tuesday	4. Respiration (Aerobic Respiration, Glycolysis, Conversion of Pyruvate to Acetyl-CoA, Krebs Cycle, Respiratory Chain, Cellular Respiration of Fats & Proteins, Anaerobic Respiration) 5. Photorespiration and Its Effects 6. C4 Photosynthesis	11. Elastic and inelastic collision 12. Elastic collision in one dimension 13. Momentum and explosive force 14. Projectile motion 15. Horizontal projectile 16. Oblique projectile 17. Height of projectile 18. Time of flight 19. Horizontal range	**5. States of matter -II Liquids** 1. Liquids+KMT of liquids 2.IMF 3.Evaporation, vapour pressure & boiling point 4.Energetics of phase changes 5. Surface tension & viscosity 6 . Liquid crystals	VOCABULARY WORDS (1-25)	
9	24-06-20	Wednesday	**5. ACELLULAR LIFE** 1. Introduction 2. Status and Discovery of The Virus 3. Classification of Viruses 4. Structure of Bacteriophage , HIV & Flu viruses 5. Parasitic Nature of Viruses 6. Life Cycle of Bacteriophage 7.Usage of Bacteriophage in Genetic Engineerng 8. AIDS and HIV Infection 9. Some Other Viral Diseases 10. Prions & Viroids	20. Friction (Static, Kinetic, Rolling & limiting) 21. Pulley (Horizontal, Vertical) 22. Contact Forces 23. Inclined Plane	**6. States of matter -III Solids** 1. Solids+ KMT of solids 2.Types of solids 2.Properties of crystalline solids 3.Crystal Lattice + lattice energy 4. Types of crytalline solids	COMBINATION MISTAKES	
10	25-06-20	Thursday	**6. PROKARYOTES** 1. Introduction, Taxonomy and Phylogeny of Prokaryotes 2. Archaea 3. Bacteria and Their Classification 4. Structure of Bacteria 5. Size and Shape of Bacteria 6. Endospores 7. Modes of Nutrition in Bacteria	**4. WORK AND ENERGY** 1. Work done by a constant force 2. Work done by a variable force 3. Work done in gravitational field 4. Power 5. Energy, kinetic energy and potential energy 6. Mechanical Advantages	**7. Chemical Equilibrium** 1.Chemical equilibrium 2.Reversible and irreversible reactions and dynamics equilibrium 3.Factors affecting equilibrium 4.Industrial applications of Le chatelier's principle 5. Solubility product 6. Coomon ion effect		
11	29-06-20	Monday	8. Comparison of Photosynthetic Bacteria and Cyanobacteria 9. Growth in Bacteria 10. Reproduction in Bacteria 11. Importance of Bacteria 12. Bacterial Diseases in Humans 13. Some Important Bacterial Diseases of Plants 14. Bacterial Flora of Humans 15. Control of Harmful Bacteria	7. Implication of energy losses in practical devices and efficiency 8. Absolute potential energy 9. Escape velocity 10. Inter conversion of potential energy and kinetic energy 11. Conservation of energy 12. Sources of energy 13. Non-renewable energy sources 14. Renewable energy sources	**8. Acids, Bases and Salts** 1. Acids, bases and salts + Acidic , basic and amphoteric substances 2.Bronsted- Lowry acids and bases 3.Relative strength of acids and bases 4.Expression of strength of acid and base 5. Levelling effect 6. Lewis acid and base 7. Buffer solutions 8. Salt hydrolysis		**BIOLOGY** **5. ACELLULAR LIFE** / **CHEMISTRY** **8. Acids, Bases and Salts**

12	30-06-20	Tuesday	**7. PROTISTS & FUNGI** 1. Introduction (Protista) 2. Animal Like Protists 3. Plant Like Protists 4. Fungi Like Protists 5. Importance of Protists to Human	**5. ROTATIONAL AND CIRCULAR MOTION** 1. Angular motion 2. Angular displacement 3. Angular velocity 4. Angular acceleration 5. Relation of Angular Quantities 6. Relation between angular and linear displacement 7. Centripetal force and centripetal acceleration 8. Vertical Circle 9. Centrifugal force or reaction force	**9. Chemical Kinetics** 1. Chemical Kinetics 2. Rate of reaction& specific rate constant + Factors Affecting rates of reaction 3. Order of reaction and determination of order of reaction 4. Theories of rate of reaction (Activation Energy, Collosion theory & TST) 5.Catalysis(Characteristic, Types & Enzyme)		**PHYSICS** **4. WORK AND ENERGY**	**ENGLISH** **Sentence Completion**
13	01-07-20	Wednesday	6. Kingdom Fungi 7. General Characteristics of Fungi 8. Classification of Fungi and Their Diagnostic Features (Zygomycota, Ascomycota, Basidiomycota) 9. Importance of Fungi	10. Banking of road 11. Torque and moment of inertia 12. Angular momentum and torque 13. Kinetic energy of rotation 14. Rolling of disc and hoop down the inclined plane	**10. Solutions and Colloids** 1.General properties of solution (Solution, suspension and colloids and Hydrophilic and hydrophobic molecules) 2.The nature of solution in liquid phase 3.Solubility and solubility curves 4.%age composition , Molarity and Mole fraction 5. Molality , ppm , ppb and ppt 6. Raoult's Law		**BIOLOGY** **6. PROKARYOTES**	**CHEMISTRY** **9. Chemical Kinetics**
14	02-07-20	Thursday	**8. DIVERSITY AMONG PLANTS** 1. Introduction 2. The Evolutionary Origin of Plants 3. Non-Vascular Plants (General Characteristics, The Life Cycle of Moss) 4. Land Adaptations By Bryophytes 5. Uses of Bryophytes	15. Artificial satellites 16. Orbital velocity 17. Geo-stationary orbits 18. Real and apparent weight 19. Variation of 'g' w.r.t Depth, Altitude, Shape of Earth 20. Weightlessness in satellites and gravity free system 21. Artificial gravity and applications of satellites	7.Colligative properties- Non-volatiles, non-electrolytes solutes in volatile solvents 8.Osmosis & its applications 9.Classification of colloids		**PHYSICS** **5. ROTATIONAL AND CIRCULAR MOTION**	**ENGLISH** **Vocabulary Words (1-25)**
15	03-07-20	Friday	**KETS EXERCISE CHAPTER 4,5**	**KETS EXERCISE CHAPTER 4**	**KETS EXERCISE CHAPTER 9**		**BIOLOGY** **7. PROTISTS & FUNGI**	**CHEMISTRY** **10. Solutions and Colloids**
16	04-07-20	Saturday	**KETS EXERCISE CHAPTER 6,7**	**KETS EXERCISE CHAPTER 5**	**KETS EXERCISE CHAPTER 10**		**PHYSICS** **1. MEASUREMENTS**	
	05-07-20	Sunday			HOLIDAY			
17	06-07-20	Monday	6. General Characteristics of Vascular Plants 7.Seeded Plants 8.Vascular Plants as Successful Land Plants.	**6. FLUID DYNAMICS** 1. Fluids 2. Fluid Statics 3. Pascal's law and Archimedes principle 4. Viscous drag and stokes' law 5. Terminal velocity 6. Terminal velocity of paratrooper 7. Fluid flow 8. Equation of continuity	**11. Thermochemistry** 1. Thermodynamics 2.Internal Energy E 3. First Law of thermodynamics 4.Enthalpy of system and standard changes 5. Heat capacity 6. Calorimetry 7. Hess's law + Born-Haber cycle	COMBINATION MISTAKES	**BIOLOGY** **8. DIVERSITY AMONG PLANTS**	**CHEMISTRY** **11. Thermochemistry**
18	07-07-20	Tuesday	**9. DIVERSITY AMONG ANIMALS** 1.Introduction 2.Classification of Animals 3. Complexity in Animals (Diploblastic & Triploblastic Organization) 4. Sub Kingdom Parazoa (Phylum Porifera) 5. Sub Kingdom Eumetazoa (Phylum Coelenterata, Phylum Platyhelminthes, Phylum Aschelminthes, Phylum Mollusca)	9. Bernoulli's equation 10. Applications of Bernoulli's equation 11. Jets and nozzles, filter pump and engine carburetor 12. Torricelli's theorem 13. Flow meters the venturi meter 14. Aerofoil 15. Blood flow meter	**12. Electrochemistry** 1. Electrochemistry 2. Oxidation -Reduction , rules & balancing of Redox equation 4. Faraday's law of electrolysis 5. Electrode Potential , SHE , Measurement of electrode potential & ECS	VOCABULARY WORDS (26-50)	**PHYSICS** **6. FLUID DYNAMICS**	**ENGLISH** **Combination Mistakes**
19	08-07-20	Wednesday	(Phylum Annelida, Phylum Arthropoda, Phylum Echinodermata, Phylum Hemichordata, Phylum Chordata) 6. Sub Phylum Vertebrata (Class Pisces, Class Amphibia, Class Reptilia, Class Aves, Class Mammalia, Class Prototheria, Metatheria & Eutheria)	**7. OSCILLATIONS** 1. Oscillations 2. Terminology of oscillatory motion 3. Vibratory motion, Vibration 4. Time period, Frequency 5. Simple harmonic motion (SHM) 6. Circular motion and SHM 7. Velocity of projection	6. Types of Electrochemical Cells (Electrolytic and Voltaic cell) 7.Batteries 8.Fuel cell 9. Corrorision and prevention	MISCELLANEOUS MISTAKES	**BIOLOGY** **9. DIVERSITY AMONG ANIMALS**	**CHEMISTRY** **12. Electrochemistry**
20	09-07-20	Thursday	**10. FORM & FUNCTIONS IN PLANTS** 1. Introduction 2. Macronutrients and Micronutrients 3. Special Mode of Nutrition in Plants 4. Role of Stomata in Gaseous Exchange and Transpiration	8. Simple Pendulum 9. Second's Pendulum 10. Energy conservation in case of SHM 11. Free and forced oscillations, 12. Resonance 13. Waveform of simple harmonic motion 14. Phase 15. Damped oscillations 16. Sharpness of resonance	**13. s and p-Block Elements** 1. 3rd period (Na to Ar) 2. Group IA elements	**KETS EXERCISE** **COMBINATION MISTAKES**	**PHYSICS** **7. OSCILLATIONS**	**ENGLISH** **Vocabulary Words (26-50)**
21	10-07-20	Friday	**KETS EXERCISE CHAPTER 8, 9**	**KETS EXERCISE CHAPTER 6**	**KETS EXERCISE CHAPTER 11**	**KETS** **VOCABULARY 26-50**	**BIOLOGY** **1. CELL STRUCTURE & FUNCTIONS**	**CHEMISTRY** **1. Stoichiometry**
22	11-07-20	Saturday	**KETS EXERCISE CHAPTER 1, 2**	**KETS EXERCISE CHAPTER 7**	**KETS EXERCISE CHAPTER 12**		**PHYSICS** **2. Vector and Equilibrium**	
	12-07-20	Sunday			HOLIDAY			
23	13-07-20	Monday	5. Transport in Plants (Xylem, Phloem, Water Status in Plants, Movement of Water through Roots, Water Movement in Xylem by TACT Mechanism, Mechanism of Opening & Closing of Stomata, Translocation of Organic Solutes) 6. Homeostasis in Plants (Types of Solutions, Osmoregulation in Plants, Adaptations of Plants to Low & High Temperature)	**8. WAVES** 1. Periodic waves 2. Progressive, transverse and longitudinal waves 3. Characteristics of wave 4. Speed of sound 5. Newton's formula for speed of sound in air 6. Laplace's correction 7. Effects of various factors on speed of sound in air	3.Group IIA Elements 4. Group IVA Elements	MISCELLANEOUS MISTAKES	**BIOLOGY** **2. BIOLOGICAL MOLECULES**	**CHEMISTRY** **2. Atomic Structure**
24	14-07-20	Tuesday	7. Support in Plants (Structures) 8. Growth and Development in Plants (Growth Correlations) 9. Growth Responses in Plants (Plant Growth Substances, Plant Movements, Photoperiodism & Phytochromes, Vernalization)	8. Superposition of waves 9. Interference of waves and its condition 10. Interference of sound waves 11. Beats 12. Reflection of waves and phase change 13. Reflection of sound waves 14. Echo and Reverberation 15. Stationary waves	5 .Group VIIA Elements	VOCABULARY WORDS (51-75)	**PHYSICS** **3. Motion and Force**	**ENGLISH** **Miscellaneous Mistakes**
25	15-07-20	Wednesday	**11. DIGESTION** 1. Introduction 2. Mechanical and Chemical digestion in Oral Cavity (Swallowing, Peristalsis) 3. Food in Stomach (Structure, Functions & Absorption, Mechanism of Secretion of Gastric Juice) 4. Food in Small Intestine & its Functions (Digestion, Absorption)	16. Transverse stationary waves in a stretched string 17. Fundamental and overtone vibration 18. Resonance of air column and organ pipes 19. Open organ pipe 20. Closed organ pipe 21. Doppler effect 22. Applications of Doppler Effect 23. Ultrasonic waves and its uses	**14. d and f-Block Elements** 1. Types and general features of transition elements	VERB & TENSES	**BIOLOGY** **10. FORM & FUNCTIONS IN PLANTS**	**CHEMISTRY** **13. s and p-Block Elements**
26	16-07-20	Thursday	5. Large Intestine - Digestion, Propulsion, Structure 6. Liver 7. Pancreas 8. Relation of Bile and Pancreatic Juice With The Secretin Hormone 9. Disorders Related to Digestive System and Food Habits	**9. PHYSICAL OPTICS** 1. Nature of light 2. Wave front 3. Huygens's principle 4. Coherent sources 5. Interference of light and its conditions 6. Young's double slits experiment 7. Interference in thin film	2.Coordination compounds	**KETS EXERCISE** **MISCELLANEOUS MISTAKES**	**PHYSICS** **8. WAVES**	**ENGLISH** **Vocabulary Words (51-75)**
27	17-07-20	Friday	**KETS EXERCISE CHAPTER 10, 11**	**KETS EXERCISE CHAPTER 8**	**KETS EXERCISE CHAPTER 13**	**KETS VOCABULARY (51-75)**	**BIOLOGY** **11. DIGESTION**	**CHEMISTRY** **3. Theories of Covalent Bonds and Shapes of Molecules**
28	18-07-20	Saturday	**KETS EXERCISE CHAPTER 3,4**	**KETS EXERCISE CHAPTER 1**	**KETS EXERCISE CHAPTER 1,2**	**KETS EXERCISE** **AGREEMENT MISTAKES**	**PHYSICS** **9. PHYSICAL OPTICS**	
	19-07-20	Sunday			HOLIDAY			

29	20-07-20	Monday	**12. CIRCULATION** 1. Introduction (Human Blood Circulatory System) 2. Human Heart (Cardiac Cycle, Passage of Blood Through Heart, Electrocardiogram)	8. Michelson's interferometer 9. Diffraction of light 10. Fraunhofer diffraction at a single slit 11. Diffraction grating 12. Diffraction of X-Rays by crystal 13. Bragg's law 14. Polarization of light 15. Production of polarized light 16. Polarization by reflection 17. Applications of polarized light	3. Chemistry of some important transition elements (Vandium, Chromium, Manganese, Iron & Copper)	VERB & TENSES	**BIOLOGY** **3. ENZYMES**	**CHEMISTRY** **14. d and f-Block Elements**
30	21-07-20	Tuesday	3. Blood Vessels 4. Cardiovascular Disorders 5. Lymphatic System	**10. THERMODYNAMICS** 1. Thermal equilibrium 2. Heat and work, equivalence of heat 3. Internal energy 4. Thermodynamic system and their state variables 5. First law of thermodynamics 6. Application of First law of thermodynamics 7. Isochoric process, Isobaric process 8. Isothermal process, Adiabatic process	**15. Organic Compounds** 1. Organic compounds-Introduction 2. Sources of organic compounds 3. Coal as a source of organic compound 4. Characteristics of organic compounds 5. Uses of organic compounds	VOCABULARY WORDS (76-100)	**PHYSICS** **10. THERMODYNAMICS**	**ENGLISH** **Verb & Tenses**
31	22-07-20	Wednesday	**13. IMMUNITY** 1. Introduction 2.First Line of Defense 3. Second Line of Defense 4. Third Line of Defense	9. Molar specific heat of a gas 10. Constant volume molar specific heat of a gas (Cv) 11. Constant pressure molar specific heat of a gas (Cp) 12. Relation between molar specific heat at constant pressure and molar specific heat at constant volume	6.New allotropic form of carbon 7. Functional group and homolous series 8. Detection of elements	ADJECTIVE	**BIOLOGY** **13. IMMUNITY**	**CHEMISTRY** **15. Organic Compounds**
32	23-07-20	Thursday	**14. RESPIRATION** 1. Introduction of Respiration 2. Properties of Respiratory Surface 3. Human Respiratory System 4. Lung volumes and capacities 5. Control of Breathing	13. Reversible, irreversible and cyclic processes 14. Heat engine 15. Second law of thermodynamics 16. Carnot heat engine and Carnot cycle 17. Refrigerator 18. Heat engine 19. Entropy	**16. Hydrocarbons** 1. Nomenclature of organic compounds(Alkanes, Alkenes, Alkynes, Benzene derivatives, Alkyl halides Alcohols, Ketones, Aldehydes and Carboxylic acids)	**KETS EXERCISE** **VERB & TENSES**	**PHYSICS** **10. THERMODYNAMICS**	**ENGLISH** **Vocabulary Words (76-100)**
33	24-07-20	Friday	**KETS EXERCISE CHAPTER 12, 13**	**KETS EXERCISE CHAPTER 10**	**KETS EXERCISE CHAPTER 14**	**KETS VOCABULARY (76-100)**	**BIOLOGY** **4. BIOENERGETICS**	**CHEMISTRY** **4. States of Matter-I Gases**
34	25-07-20	Saturday	**KETS EXERCISE CHAPTER 5**	**KETS EXERCISE CHAPTER 2**	**KETS EXERCISE CHAPTER 15**	**KETS EXERCISE** **SENTENCE COMPLETION**	**PHYSICS** **10. THERMODYNAMICS**	
	26-07-20	Sunday	HOLIDAY					
35	27-07-20	Monday	6. Mechanism of Transport Of Gases 7. Transport of Oxygen 8. Transport of Carbon Dioxide 9. Respiratory Pigments 10. Upper Respiratory Disorders (Sinusitis, Otitis Media) 11. Lower Respiratory Tract Infections (Pneumonia, Tuberculosis) 12.Disorders of Lungs (Emphysema, Lung Cancer) 13. Effects of Smoking on Respiratory System	**11. ELECTROSTATICS** 1. Properties of Charge 2. Coulomb's Law 3. Electric Field and its Intensity 4. Representation of Electric Field Lines 5. Applications of electrostatics 6. Photocopier 7. Laser Printer 8. Inkjet Printers 11. Gauss's Law 12. Applications of Gauss's Law	2. Types of hydrocarbons 3. Alkanes & Cycloalkanes 4. Alkenes	ADJECTIVE	**BIOLOGY** **4. BIOENERGETICS**	**CHEMISTRY** **5. States of matter -II Liquids**
36	28-07-20	Tuesday	**KETS EXERCISE CHAPTER 14**		**KETS EXERCISE CHAPTER 3,4**	**KETS EXERCISE** **ADJECTIVE**	**PHYSICS** **11. ELECTROSTATICS**	**ENGLISH** **Adjective**
37	29-07-20	Wednesday	**KETS EXERCISE CHAPTER 1**		**KETS EXERCISE CHAPTER 5,6**	**KETS VOCABULARY (1-25)**	**BIOLOGY** **14. RESPIRATION**	**CHEMISTRY** **6. States of matter -III Solids**
	30-07-20	Thursday						
	31-07-20	Friday	EID HOLIDAYS					
	01-08-20	Saturday						
	02-08-20	Sunday	HOLIDAY					
38	03-08-20	Monday	**15. HOMEOSTASIS** 1. Mechanism of Homeostasis 2. Osmoregulation 3. Osmoregulation in Fresh Water Animals 4. Osmoregulation in Marine Animals 5. Osmoregulation in Terrestrial Animals 6. Excretion	9. Electric Flux 10. Electric Flux through a Close surface 13. Location of Excess Charge On a Conductor 14. Electric intensity due to an infinite sheet of charge 15. Electric intensity between two oppositely charged parallel plates 16. Electric Potential 17. Electric Potential Energy and Potential due to point Charge 18. Field as Potential Gradient 19. Electron volt (eV)	5. Isomerism 6. Alkynes	VOCABULARY WORDS (101-125)	**BIOLOGY** **14. RESPIRATION**	**CHEMISTRY** **7. Chemical Equilibrium**
39	04-08-20	Tuesday	7. Human Excretory System 8. Kidneys & Associated Tubules 9. Nephron 5. Urinary Tract Infections 6. Urinary Stones 7. Renal Failure 8. Renal Dialysis 9. Kidney Transplantation 10. Thermoregulation 11. Thermoregulation in human 12. Fever	20. Capacitor 21. Capacitance of a capacitor and its Unit 22. Capacitance of parallel plate capacitor 23. Combination of Capacitors 24. Electric polarization 25. Energy stored in a capacitor 26. Charging and discharging of a capacitor	7. Benzene and substituted benzene	ADVERB	**PHYSICS** **11. ELECTROSTATICS**	**ENGLISH** **Vocabulary Words (101-125)**
40	05-08-20	Wednesday	**16. SUPPORT & MOVEMENT** 1. Human Skeleton 2. Cartilage and Bone 3. Main Divisions of Human Skeleton 4. Joints 5. Bone Fractures 6. Joint Injuries 7. Disorders of skeleton	**12. CURRENT ELECTRICITY** 1. Electric current 2. Steady Current, Drift Velocity in conductor,Electroencephalogram (EEG) 3. Ohm's Law 4. Review of series and parallel combinations resistors 5. Electrical Resistance 6. Specific Resistance OR Resistivity	**17. Alkyl Halides** 1. Alkyl halides	ADVERB	**BIOLOGY** **15. HOMEOSTASIS**	**CHEMISTRY** **16. Hydrocarbons**
41	06-08-20	Thursday	8. Types of muscles 9. Structure of Skeletal Muscles 10. Muscle Contraction 11. Muscle Problems	7. Temperature Co-Efficient of Resistance 8. Wire-Wound Variable Resistors 9. Thermistor And Its Applications 10. Electric Power & EMF 11. Maximum power output	2. Organometallic compounds (Grignard's reagent)	**KETS VOCABULARY (101-125)**	**PHYSICS** **12. CURRENT ELECTRICITY**	**ENGLISH** **Adverb**
42	07-08-20	Friday	**KETS EXERCISE CHAPTER 15**	**KETS EXERCISE CHAPTER 11**	**KETS EXERCISE CHAPTER 16**	**KETS EXERCISE** **ADVERB**	**BIOLOGY** **16. SUPPORT & MOVEMENT**	**CHEMISTRY** **17. Alkyl Halides**
43	08-08-20	Saturday	**KETS EXERCISE CHAPTER 16**	**KETS EXERCISE CHAPTER 3**	**KETS EXERCISE CHAPTER 7**		**PHYSICS** **12. CURRENT ELECTRICITY**	
	09-08-20	Sunday	HOLIDAY					
44	10-08-20	Monday	**17. NERVOUS COORDINATION** 1. Steps Involved in Nervous Coordination 2. Neurons 3. Reflex Arc 4. Nerve Impulse 5. Synapse and Neurotransmitters 6. Organization of Human Nervous System 7. Divisions & Protection of Brain & Spinal Cord	12. Equivalent power in series and parallel combination 13. Thermocouples &Variation in Thermoelectric e.m.f with temperature 14. Kirchhoff's Law 15. Wheatstone bridge 16. Potentiometer	3. Amines	NARRATION	**BIOLOGY** **16. SUPPORT & MOVEMENT**	**CHEMISTRY** **17. Alkyl Halides**

45	11-08-20	Tuesday	8. Structure & Function of Brain 9. Structure & Function of Spinal Cord 10. Peripheral Nervous System 11. Somatic Nervous System 12. Autonomic Nervous System 13. Structure & Function of Special Receptors 14. Effects of Drugs on Nervous Coordination 15. Nervous Disorders and Diagnostic Tests	**13. ELECTROMAGNETISIM** 1. Magnetic Field 2. Force on a current carrying conductor 3. Magnetic flux and flux density 4. Ampere's Law 5. Magnetic field due to a current carrying solenoid 6. Applications of magnetic field 7. Motion of charged particle in uniform magnetic field	**18. Alcohols, phenols and ethers** 1.Alcohols	PREPOSITION	**PHYSICS** **13. ELECTROMAGNETISIM**	**ENGLISH** **Narration**
46	12-08-20	Wednesday	**18. CHEMICAL COORDINATION** 1. Hormones: The Chemical Messengers 2. Pituitary Gland 3. Thyroid Gland 4. Parathyroid Glands 5. Pancreas (Islets of Langerhans) 6. Adrenal Glands 7. The Gonads 8. Feedback Mechanism	8. Determination of e/m of an electron 9. Velocity Selector 10. Torque on a current carrying coil 11. MRI 12. Galvanometer 13. Conversions of Galvanometer 14. Ammeter, Voltmeter, Ohmmeter 15. AVO meter-multimeter	2. Phenols	PREPOSITION	**BIOLOGY** **17. NERVOUS COORDINATION**	**CHEMISTRY** **18. Alcohols, phenols and ethers**
47	13-08-20	Thursday	**19. BEHAVIOUR** 1. Nature of Behaviour 2. Innate Behaviour (Reflexes, Orientation Behaviour, Tropic Movements) 3. Learning Behaviour (Habituation, Imprinting, Classical Conditioning, Instrumental Learning, Insight Learning)	**14. ELECTROMAGNETIC INDUCTION** 1. Electromagnetic Induction 2. Faraday's Laws of Electromagnetic Induction 3. Faraday's law application in seismometer 4. Lenz's Law 5. Induced & Motional EMF 6. Self-Induction	3. Ethers	**KETS EXERCISE** **NARRATION**	**PHYSICS** **14. ELECTROMAGNETIC INDUCTION**	**ENGLISH** **Preposition**
48	14-08-20	Friday	**KETS EXERCISE CHAPTER 17**	**KETS EXERCISE CHAPTER 12**	**KETS EXERCISE CHAPTER 17**	**KETS EXERCISE** **PREPOSITION**	**BIOLOGY** **18. CHEMICAL COORDINATION**	**CHEMISTRY** **18. Alcohols, phenols and ethers**
49	15-08-20	Saturday	**KETS EXERCISE CHAPTER 18**	**KETS EXERCISE CHAPTER 13**	**KETS EXERCISE CHAPTER 18**		**PHYSICS** **14. ELECTROMAGNETIC INDUCTION**	
	16-08-20	Sunday	HOLIDAY					
50	17-08-20	Monday	4. Social Behaviour (Hostile & Helpful Intraspecific Interaction, Aggregation, Territorial Behaviour, Dominance Hierarchies, Altruistic Behaviour	7. Mutually Induced EMF & Mutually Inductance 8. AC Motor 9. Back emf 10. Eddy Currents 11. Alternating Current Generator 12. Transformers and induction law	**19. Carbonyl compounds-I** **Aldehydes and Ketones** 1.Structure and physical properties 2. Preparation of aldehydes and ketones	PASSIVE VOICE	**BIOLOGY** **19. BEHAVIOUR**	**CHEMISTRY** **19. Carbonyl compounds-I** **Aldehydes and Ketones**
51	18-08-20	Tuesday	**20. REPRODUCTION** 1.Introduction and Human Reproductive System 2. Male Reproduction System 3. Female Reproductive System 4. Disorders of Reproductive System 5. Sexually Transmitted Diseases	**15. ALTERNATING CURRENT** 1. Alternating Current 2. Phase of A.C 3. A.C through Resistance & Power Loss in an Resistor 4. A.C through Pure Inductance & Power Loss in an inductor 5. R.M.S Value of Sinusoidal Current 6. Choke Coil 7. A.C through Capacitance & Power Loss in a capacitive circuit 8. R.L series A.C. circuit, Power in RL circuit & R-L series Impedance Triangle	3. Reactions of aldehydes and ketones 4. Identification of carbonyl compounds	NOUN	**PHYSICS** **15. ALTERNATING CURRENT**	**ENGLISH** **Passive Voice**
52	19-08-20	Wednesday	**21. DEVELOPMENT & AGING** 1.Embryonic Development 2. Control of Development 3. Human Embryonic Development 4. Lactation 5. Disorders During Embryonic Development 6.Postnatal Development	9. Q-factor 10. R.C Series A.C. Circuit & Power in R.C. circuit 11. R-L-C Series A.C Circuit & Resonance 12. Principle of Metal Detectors 13. Maximum Power Transfer 14. Maxwell's Equations 15. Electromagnetic waves16. Electrocardiogram	**20. Carbonyl compounds-II** **Carboxylic and Functional derivatives** 1. Structure and physical properties 2. Acidity 3. Preparation of carboxylic acids 4.Reactions of carboxylic acids	NOUN	**BIOLOGY** **20. REPRODUCTION**	**CHEMISTRY** **20. Carbonyl compounds-II** **Carboxylic and Functional derivatives**
53	20-08-20	Thursday	**22. INHERITANCE** 1. Mendel's Law of Inheritance 2. Exceptions to Mendelian Inheritance 3. ABO Blood Group Systems 4. Occurance of Some Other Blood Group Systems	**16. PHYSICS OF SOLIDS** 1. Classification of Solids 2. Elastic Moduli 3. Hooke's Law and Stress-Strain Curve 4. Mechanical Properties of Solids 5. Strain energy	**21. Biochemistry** 1. Carbohydrates 2. Protiens	**KETS EXERCISE** **PASSIVE VOICE**	**PHYSICS** **16. PHYSICS OF SOLIDS**	**ENGLISH** **Noun**
54	21-08-20	Friday	**KETS EXERCISE CHAPTER 19, 20**	**KETS EXERCISE CHAPTER 14**	**KETS EXERCISE CHAPTER 19**	**KETS EXERCISE** **NOUN**	**BIOLOGY** **21. DEVELOPMENT & AGING**	**CHEMISTRY** **21. Biochemistry**
55	22-08-20	Saturday	**KETS EXERCISE CHAPTER 21**	**KETS EXERCISE CHAPTER 15**	**KETS EXERCISE CHAPTER 20**		**PHYSICS** **16. PHYSICS OF SOLIDS**	
	23-08-20	Sunday	HOLIDAY					
56	24-08-20	Monday	5. Gene Interactions 6.Gene Linkage and Crossing Over 7. Sex Determination 8. Sex Linkage	6. Energy band theory 7. Superconductors 8. Theory of Magnetism & Classification of Magnetic Materials 9. Magnetic Hysteresis	3. Enzymes 4.Lipids	ARTICLE	**BIOLOGY** **22. INHERITANCE**	**CHEMISTRY** **21. Biochemistry**
57	25-08-20	Tuesday	**23. CHROMOSOME & DNA** 1. Chromosomes 2. Concept of Gene 3. Chromosomal Theory of Inheritance 4. DNA as Hereditary Material 5. DNA Replication	**17. ELECTRONICS** 1. Intrinsic & Extrinsic Semi-Conductors 2. P-N junction 3. Transistor as an amplifier 4. V-I Characteristics of PN Junction 5. Transistor as a switch 6. Drift of Minority Carrier	5. Nucleic acids 6.Minerals of biological significance	ARTICLE	**PHYSICS** **17. ELECTRONICS**	**ENGLISH** **Article**
58	26-08-20	Wednesday	6. Gene Expression 7. Regulation of Gene Expression 8. Mutation 9. Diseases Induced by Mutation	7. Digital Electronics & Optoelectronic junction devices (Photodiode, Light emitting diode, Photovoltaic cell) 8. Rectification (Half wave and full wave rectification) 9. Transistor 10. Types of configurations (Common base Configuration, Common emitter configuration, Beta factor)	**22. Industrial Chemistry** 1. Safety consideration in the process of industry 2. Dyes	LITERARY TERMS	**BIOLOGY** **23. CHROMOSOME & DNA**	**CHEMISTRY** **22. Industrial Chemistry**
59	27-08-20	Thursday	**24. EVOLUTION** 1. The Concept of Evolution 2. Evolution of Eukaryotes From Prokaryotes 3. Lamarckism 4. Darwinism 5. Neo-Darwinism and Modern Synthesis 6. Evidences of Evolution 7. Divergent and Convergent Evolution 8. Hardy-Weinberg Theorem 9. Genetic Drift 10. Speciation 11. Facts About Creation of Living Organisms	**18. DAWN OF MODERN PHYSICS** 1. Special Theory of Relativity 2. Black Body radiation 3. Planck's Quantum Theory 4. Photo-electric effect 5. Applications of the Photo-electric effect	3. Pesticides 4. Petrochemicals 5. Synthetic polymers-Addition & Condensation polymers	**KETS EXERCISE** **ARTICLE**	**PHYSICS** **17. ELECTRONICS**	**ENGLISH** **Literary Terms**
60	28-08-20	Friday	**KETS EXERCISE CHAPTER 22**	**KETS EXERCISE CHAPTER 16**	**KETS EXERCISE CHAPTER 21**	**KETS EXERCISE** **LITERARY TERMS**	**BIOLOGY** **24. EVOLUTION**	**CHEMISTRY** **22. Industrial Chemistry**
61	29-08-20	Saturday	**KETS EXERCISE CHAPTER 23, 24**	**KETS EXERCISE CHAPTER 17**	**KETS EXERCISE CHAPTER 8**		**PHYSICS** **18. DAWN OF MODERN PHYSICS**	
	30-08-20	Sunday	HOLIDAY					
62	31-08-20	Monday	**25. MAN & HIS ENVIRONMENT** 1. Biogeochemical Cycle 2. Energy Flow Through an Ecosystem 3. Ecological Succession & Types (Xerosere) 4. Population Dynamics 5. Human Impacts on Evnironment 6. Environmental Resources and Their Depletion	6. Compton's effect 7. Pair production 8. Pair Annihilation 9. The Wave Nature of Particles 10. Davisson and Germer Experiment 11. Electron Microscope 12. Uncertainty Principle	6. Cosmetics 7. Adhesives	PRONOUN	**BIOLOGY** **25. MAN & HIS ENVIRONMENT**	**CHEMISTRY** **22. Industrial Chemistry**

63	01-09-20	Tuesday	**26. BIOTECHNOLOGY** 1. Introduction 2. Cloning of Genes/ Recombinant DNA Technology 3. Polymerase Chain Reaction 4. Genomic Library 5. DNA Sequencing	**19. ATOMIC SPECTRA** 1. Atomic Spectra 2. Bohr's Model of hydrogen atom 3. Quantized radii and Quantized energy 4. Excitation and Ionization Potential 5. Inner shell transitions and characteristic X-Rays 6. Properties and uses of X-Rays 7. Braking X-Rays 8. Lasers 9. Helium-Neon laser, Uses of laser	**23. Environmental Chemistry** 1. Chemistry of the troposhere 2. Chemistry of the stratosphere 3. Water pollution and water treatment 4. Green chemistry	ONE WORD SUBSTITUTION	**PHYSICS** **19. ATOMIC SPECTRA**	**ENGLISH** **Pronoun, One Word Substitution**
64	02-09-20	Wednesday	6. DNA Anal ysis 7. Genome Maps 8. Tissue Culture 9. Transgenic Organisms 10. Biotechnology and Healthcare 11. Scope and Importance of Biotechnology	**20. NUCLEAR PHYSICS** 1. Atomic Nucleus 2. Isotopes 3. Mass spectrograph 4. Mass defect and binding energy 5. Radioactivity 6. Half life rate of Decay 7. Interaction of Radiation with Matter 8. Radiation Detectors 9. Geiger Muller Counter 10. Solid state Detector 11. Nuclear reaction 12. Nuclear fission 13. Fission chain reaction	**24. Analytical chemistry** 1. Analytical chemistry 2. Classical Methods of analysis	IDIOMS	**BIOLOGY** **26. BIOTECHNOLOGY**	**CHEMISTRY** **23. Environmental Chemistry**
65	03-09-20	Thursday	**27. BIOLOGY & HUMAN WELFARE** 1. Vaccination and Integrated Disease Managemnet 2. Animal Husbandry 3. Latest Techniques Used for Plants 4. Home Gardening 5. Role of Microbes in Human Welfare	14. Nuclear Reactors 15. Types of Reactors 16. Nuclear fusion 17. Radiation exposure 18. Biological effects of Radiation 19. Basic forces of nature 20. Building blocks of matter	3.Modern methods of analysis (Spectrometry, NMR & Atomic , absorption spectra)	PROVERB	**PHYSICS** **20. NUCLEAR PHYSICS**	**ENGLISH** **Idioms, Proverb**
66	04-09-20	Friday	**KETS EXERCISE CHAPTER 25, 26**	**KETS EXERCISE CHAPTER 18**	**KETS EXERCISE CHAPTER 22**	**KETS EXERCISE** **PRONOUN, PROVERB**	**BIOLOGY** **27. BIOLOGY & HUMAN WELFARE**	**CHEMISTRY** **24. Analytical chemistry**
67	05-09-20	Saturday	**KETS EXERCISE CHAPTER 27**	**KETS EXERCISE CHAPTER 19, 20**	**KETS EXERCISE CHAPTER 23, 24**	**KETS EXERCISE** **IDIOMS, ONE WORD SUBSTITUTION**	**PHYSICS** **20. NUCLEAR PHYSICS**	