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PHYSICS

01 Essential Mathematics → 147 Min (11th)

01 Trignomentry	50 mins
02 Differentiation	57 mins
03 Integration, Examples on Integration and Differentiation	40

Offline

02	Horizantol Projectile (Problems), Projectile from the ground surface (Time Flight),Range, Maximum height,Equation of Trajectory,Velocity and radius of curvature	51 mins
03	Projectile from ground (Some remarked points and problems)	40 mins
04	Problems on Projectile	34 mins
05	Projectile on inclined plane and problems	44 mins
06	Problem related to projectile on inclined plane	45 mins
07	Problems related to projectile motion	33 mins
	17 Relative Motion → 272 Min (11 hr)	
01	Relative motion theory	40 mins
02	Problems on relative motion	44 mins
03	Problems on relative motion	39 mins
04	River problems	36 mins
05	Problems based on river swimmer/boat	43 mins
06	Rain vs man & wind problems	45 mins
07	Problems on relative motion	25 mins
	18 Circular Motion → 146 Min (11 hr)	
01	Ratatinal kineuatics, acceleration in circular motion, uniform circular motion, circular motion in henizantal flane	76 mins
02	Vertical circular motion, dynamic of circular motion, Circular turning, banking of rood, rotor/death well	70 mins

19 Electrostatics → 1051 Min (12 th)	
01 Introduction, Charge & Coloumbs Law	89 mins
02 Application of Coloum's Law, Superposition principal etc.	80 mins
03 Vector, ---------- ELECTRIC FIELD MISSING ----------	88 mins
04 Potential due to point charge, Potential Difference, Potential Energy, Potential Energy of System of Charges	82 mins
05 "Elecreic Lines of Force, Tyes of Electric Field, Equipotential Surfaces, Relationship between Electric Field Intensity and Potential (for Uniform Electric Field)"	77 mins
06 "Relationship between E abd V(for non uniform Field), Motion of Charged particle in Electric Field (Fundamental Overview)"	81 mins
07 Electric Field and Potential due to infinitly long uniformly charge wire and its variant	65 mins
08 Electric Fiels & Potential due to circular arc and circular ring	79 mins
09 "Electric Field & Potential due to uniformly charged disk, E & V due to uniformly charged Hollow Sphere and Solid sphere"	84 mins
10 Derivation of E & V due to Solid Insulating uniformly charged sphere, Hollow sphere	79 mins
11 Illustration based on spheres, E & V due to Large Charged sheets, Illustration based on sheets	87 mins
12 Dipole. Dipole Moment, E & V due to Normal & Short Dipole, Derivation of E & V due to Dipole	71 mins
13 Dipole in External Electric Field (Uniform & Non-Uniform), Derivation of Force & Torque, Illustration based on Dipole in external field, Behaviour of Charged conductor	89 mins
20 Gauss Law → 89 Min (12 th)	
01 Gauss Theorem, Application of Gauss Theorem - Determination of Flus, Determination of Charge Distribution and determination of electric field. Electric Field due to cylinder (Solid & Hollow)	89 mins

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21 Capacitance → 801 Min (12th)

01	Conductor & its Capacitance, Capacitance of Spherical Conductor, Energy of a Charged Conductor (Formule), Energy Density	70 mins
02	Derivation of Energy of Charged Conductor, Illustration to determine Energy of Conductor, Insulator, Difference between Self Energy & Interaction Energy, Redistribution of Charge between Conductors, Energy Loss, illustration on Redistribution of charge be	69 mins
03	Concept of Capacitor, Different types of capacitor, Formule for Capacitor, Determination of Capacitance, Parallel Plate Capacitor	71 mins
04	Combination of Capacitors, Series and Parallel Combination	81 mins
05	Examples of Series & Parallel Combination focusing to determination of Equivalent Capacitance, Wheat Stone Bridge	81 mins
06	Circuit Anlysis for Series & Parallel Combination, Kirchoff's Laws	84 mins
07	Circuit Anlysis using Kirchoff's Law, Calculation of Equivalent Capacitance using Kirchoff's Law	77 mins
08	Circuit Analysis using Kirchoff's 1st Law, Application of symmetry in electric circuit, Distribution of charge between two capacitors	81 mins
09	Derivation of redistribution of charge between two capacitor, Discussion on various possible profile of distribution of charge among capacitor without and with battery.	78 mins
10	Various Aspects Related to Parallel Plate Capacitor, Solution Technique for Problem Based on comparision of various quantities, Spherecial Capacitor, Cylindrical Capacitor	66 mins
11	Force on Dielectric Salab	43 mins

22 Current Electricity → 755 Min (12th)

01	Current, Mechanism of Current Flow in Conductor, Drift Velocity, Relationship between current and Drift Velocity	74 mins
02	Ohm's Law, Resistors, Factors afecting resisnace, Dependance of Resistance on length, Area and Temperature	76 mins
03	Effect of Temperature on resistance, resistivity, Series & Parallel Combination of Resistors, Examples based on series & parallel	82 mins

	combination, symmetry in circuits	
04	Kirchoff's Law & Application, Cell, Characteristics of Cell-Internal Resistance, EMF, Terminal Voltage	71 mins
05	Combination of Cells, Using combination of cells for Solving circuits	77 mins
06	Joule Heating, Bulbs, Combination of Bulbs	76 mins
07	Charging & Discharging of Capacitors - Derivation	73 mins
08	Questions based on charging & Discharging, and various types of RC circuits	72 mins
09	Galvanometer, Ammeter	80 mins
10	Voltmeter, Questions Based on Ammeter and Voltmeter, Meter Bridge	74 mins
	23 Magnetic Effects of Current → 911 Min (12 hr)	
01	Introduction, Magnetic Field of Earth	75 mins
02	Orestead Experiment, Biot-Savart's Law, Application of BSL, Magnetic field due to finite length of the wire	61 mins
03	Derivation of Magnetic Field due to finite length of wire, Various illustration explaining the application of Magnetic field due to finite length of the wire, B due to circular arc	81 mins
04	Magnetic effect due to current carrying coli, Derivation, application	68 mins
05	Magnetic Field due to Solenoid, Spiral, Biot-Savart's Law for Moving Charge, Magnetic field due to charge moving along circle, B due to rotating charged ring, rotating charge disk	73 mins
06	Magnetic Force on moving charge, Special cases, motion of charged partilce along circular path in uniform Magnetic Field	76 mins
07	Helical Motion of Charged particle in uniform Magnetic field, Related examples	80 mins
08	General Techinique to solve problem based on motion of charged particle, Motion of particle in Magnetic and Electric field	79 mins

09	Motion of Cherged Particle in magnetic and electric field, Cyclodial Motion	63 mins
10	Magnetic Force on Current Carrying Conductor, Behaviour of current carring loop	84 mins
11	Magnetic Moment of the Current Carrying Loop, Current Carrying loop in external magnetic field, Magnetic Torque on loop	84 mins
12	Application of Magnetic Torque on current carrying loop, Ampere's Law, Mahnetic field due to hollow and solid current carrying cylinder, determination of current distribution is B is known using ampere's Law	87 mins

24 EMI → 918 Min (12 th)

01	Magnetic Flux	57 mins
02	Farady's Laws of EMI, Lenz's Rule to determine direction of current	78 mins
03	Determination of emf using lenz's Rule, Methods of generating emf, induced emf by varying area (Flux Method)	77 mins
04	Motional emf, rsults asociated with various cases related to motional emf	88 mins
05	Examples based on motional emf, Energy Associated with motional emf, examples relatd to motion of conductor, Terminal Velocity	81 mins
06	Motional emf due to rotational motion of conductor, Question based on rotational motional emf	90 mins
07	Generating induced emf by varying angle between Area and Magnetic Field; Induced emf and induced Electric Field due to time varyin magnetic field.	90 mins
08	Application of generating induced emf by varying B (a) induced emf based applications (b) induced electric field based application	90 mins
09	Self Induction, Self Inductance, Determination of self inductance, Solution Technique for R-L Circuit	89 mins
10	R-L Series Circuits, Grwoth & Decay of current, Question based on RL circuits, Determination of current and induced emf immediately after an event in RL Circuits	89 mins
11	Combination of inductors, Mutual Induction, Mutula Inducatnace,	89

	Determination of Mutual Inductance, Transformer, Eddy Current	mins
	25 Alternating Current → 344 Min (12th)	
01	Definition of AC, Various values of AC, various definitions related to AC	89 mins
02	Resistance, Reactance, Impedance in AC circuit, Solving AC circuits	75 mins
03	Various cases of circuits with AC input - When on Resistsance is in the circuit, when only Inductor coil is in circuit, when only capacitor is in the circuit, RL series, RC series and LC series circuit	87 mins
04	LCR Series Circuit, Measurement of AC, Power in AC (Instantaneous Power, Average Power, Apparent Power), Power Factor, Wattless current, Resonance in LCR series circuit	93 mins
	26 Calorimetric → 212 Min (11th)	
01	Introduction, Specific Heat, Heat Capacity & Water Equivalent	85 mins
02	Latent Heat, Principle of Calorimetry, Mixture Problems	83 mins
03	Illustration of Calorimetry	44 mins
	27 Kinetic Theory of Gases → 242 Min (11th)	
01	Assumptions of KTG, Different Types of Velocities, Volume & Pressure, Pressure Derivation	89 mins
02	Temperature of Gas, Gas Laws, Ideal Gas Law, Expressing pressure in various situation using concept of Hydrostatics	92 mins
03	Application of Gas Laws, Degree of Freedom, Equipartition of Energy, Internal Energy of Gas	61 mins
	28 Thermodynamics → 355 Min (11th)	
01	Heat, Specific Heat of Gases, Cp, Cv, Adiabatic Coefficient of Gas & Mixture, Significance of Work in Theromoyanamics, Work done By Gas- Method1: Direct calculation, Method-2:Graphical Method	64 mins
02	Work Done by Gas - Method 3: Indirect Method, Method 4: Using first Law of Thermodynamics, Internal Energy, First Law of	68 mins

Thermodynamics

03	Processes- Iscochoric, Isobaric, Isothermal, Adiabatic	76 mins
04	Polytropic Process, Cyclic Process, Solution Technique for Cyclic Process	75 mins
05	Examples on cyclic process, Deternination of Molar specific hear of a process; Determination of process equation, free expansion and few points	72 mins

29 Heat Transfer → 476 Min (11 hr)

01	Introduction, Conduction, Different Definition, Law od Conduction, Application of Law of conduction to Straight Homogeneous, Uniform Rod	79 mins
02	Application of Law of conduction to Inhomogeneous & non uniform rod, combination of thermal conductors	71 mins
03	Application of Series & Parallel combination, Various types of illustration of condcution, Growth of Ice Layer, Cylindrical and Spherical condcutor	82 mins
04	Radiation, Definitions, Laws of Radition - Prevost Heat Exchange Theory, Kirchoff's Law	83 mins
05	Stefan's Law, Applications of Stefan's Law, Newton's Law of colling	79 mins
06	Applications of Newton's Law of cooling, Spectrum of Black Body Radiation, Wein's Displacement Law, Solar Constant, Covection	82 mins

30 Thermal Expansion → 277 Min (11 hr)

01	"Introduction, Linear Expansion of Solid, Concept of Coefficient of Linear Expansion, Variation of Length of a solid with Temperature, Applications - Reading of a Scale, Radisu of Bimetallic Strip"	68 mins
02	Thermal Stress, Reading of Pendulum Clock, Differential Expansion	80 mins
03	Superficial Expansion of Solids, Volume xpansion of Solids, Variation of density of Solid with Temperature, Exapnasion of Liquid, Real Exapnasion of Liquid, Apparent Expansion of Liquid, Relationship between Coefficient of real expansion and apparent expa	78 mins
04	Determination of Coefficient of Real Expansion of Liquid, Various Methods - Sinker Method, Specific Gravity Bottle Method, Balancing	51 mins

Column Method

05	Stefan's Law, Applications of Stefan's Law, Newton's Law of colling	0 mins
31	**Transverse Wave** → 550 Min (11th)	
01	Definition, types of waves, equation of wave-fundamental concept	75 mins
02	Equation o wave - detailed explanation, definition related to waves	82 mins
03	Transeverse Wave, Equation, velocity of Transverse Wave in Stretched String, Power Transmitted by Transeverse Wave	82 mins
04	Results related to power transmitted by transeverse wave, Energy transmitted through KE & PE, Principal of Superposition, Stationary wave in string, Properties of Stationary wave.	83 mins
05	Reflection & refration of waves, shap of reflected wave, Writing equation of reflected and refracted ray, Amplitude of reflected and refracted wave, superposition of incident & reflected wave	79 mins
06	Questions based on equation of stationary waves, Stationary wave in stretched string, Sonometer, Laws of string	85 mins
07	Meldee's Experiment, Energy of stationay wave	64 mins
32	**Sound Wave** → 338 Min (11th)	
01	"Concept of sound waves, Sound waves as Pressure Wave, Displacement wave, equation of sound waves, relationship between pressure wave and displacement wave equation, Velocity of sound wave, derivation"	84 mins
02	Intensity of Sound wave, Derivation of intensity, Concept of superposition, Beats and detailed analysis of beats	85 mins
03	Stationary Waves in sound, Vibration of organ pipes, Resonane Tube, Energy of longitudinal statioanary waves	84 mins
04	Reflection of sound waves, Questions based on equation of sound waves, Interference, Types of interference, Questions based on interference of sound waves	85 mins
33	**Dopplers Effect** → 86 Min (11th)	

86

01	Definition of Doppler's effect of Sound, Formula for observed frequency and wavelength, explanation of doppler's effect, Various profiles of questions in doppler's effect, Doppler's effect with reflected sound, Delay in doppplers effects etc.	mins
34 Atomic Structure → 313 Min (12 th)		
01	Introduction of Atomic Structure, Dalton's Model, Thomson's Model, Rutherford's Model, Distance of closest approach-all cases, Bhor's Model introcution and explaination	86 mins
02	Explanation of radius, velocity, Time period and energy of electron in oribit, definitions related to various states, H-atom spectrum (both emission and absorption)	89 mins
03	Emission and Absorption spectrum of H-atom, All series of spectrum, Collision of atoms and related concepts	88 mins
04	Bhor's Theory when nucleus is not at rest, Effect of recoil of atom on emitted wavelength	50 mins
35 Matter Waves → 170 Min (12 th)		
01	Introduction, D'Broglie Theory, Application of D'Broglie theiry to particles and photons, Various definition related to light source power, intensity, energy flus, photon flux etc.	82 mins
02	Force and pressure due to light/photons in various situations	88 mins
36 Nuclear Physics → 189 Min (12 th)		
01	Introduction of Nucleus, Properties of Nucleus, Mass, Density of Nucleus, Nuclear Stability, Binding Energy, Variotion of BE with mass Number	79 mins
02	Nuclear Fission, Nuclear Reactor, Nuclear Fusion, Nuclear Collision, Types of Collition, Exoergic reaction and illustration.	86 mins
03	Endothermic Reaction, Threshold Energy	24 mins
37 Radioactivity → 175 Min (12 th)		
01	Introduction of Radioactivity, Different tyes of decays and their properties, Law of radioactivity, Different Definitions	89 mins
02	Application of Law of radioactivity in different situations, Carbon Dating, Radioactivity equilibrium.	86 mins

38 Photo Electric Effect → 154 Min (12 th)		
01	Introduction of Photo Electric Effect, Various definitions, Einstein Explanation of Photo Electric Effect, Photo-Cell, Photo-Electric curent, Stopping Potential	74 mins
02	Dependance of Photo-Electric Current on various factros like Intensity, Potential difference between emitter & collector, frequecy of incidenting light, examples based on determination of photoelectric current	80 mins
39 X Rays → 124 Min (12 th)		
01	Introduction of X-Rays, Production of X-rays, Mechnism of production of X-rays (a) Continious X-rays (b) Characteristics X-rays	85 mins
02	Moseley Law, Properties of X-Rays	39 mins
40 Semiconducter device & Transistors → 631 Min (12 Hr)		
01	Semiconductor, energy band in solids, conduction band & valence band	53 mins
02	Forbidden energy gap.Conductors, Insulators & semiconductors. Concept of Holes in a semiconductor	50 mins
03	Types of semiconductor, Intrinsic and Extrinsic semiconductor	41 mins
04	Current through semiconductor	39 mins
05	Problem based on current through semiconductor. PN junction	67 mins
06	PN junction biasing. Breakdown of diode	59 mins
07	Diode and Diode circuit problems	48 mins
08	Application of Diode-LED, Photo Diode and solar Cell	45 mins
09	Zener diode & diode as a rectifier,	45 mins

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	mins	
02 Vectors (Free Trial) → 256 Min (11th)		
01 Classufication of Vector,Types of Vector, Representation of Vector: (A) Graphical Method (B) 2D Method	59 mins	VOD
02 3D Method to represent a Vector,Unit Vector Method to represent a Vector, Coordinate mathod to represent a Vector	57 mins	VOD
03 Vector addition, vector subtraction	55 mins	VOD
04 Scalar & vector product	52 mins	
05 Examples on vector, Alzebra	33 mins	
03 Error → 42 Min (11th)		
01 "Error in Addition, Error in Subs traction , Error in multiplication , Error in division, Error in Power, Error in general Relation"	42 mins	
04 Unit and Dimension → 213 Min (11th)		
01 "Fundamental quantity and there units, Definition of dimensions, dimensional Formula"	64 mins	
02 Applications of dimensional analysis	70 mins	
03 Limitations of dimensional analysis and errors	79 mins	
05 Friction → 118 Min (11th)		
01 Lecture data not available	61 mins	
02 Lecture data not available	57 mins	

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10	Transistor and its working	45 mins
11	Configuration of transistor. Common base configuration (CB) and its characterstics curve	41 mins
12	Common emitter configuration of transistor and charcterstics curve. Output voltage v/s Input voltage curve	41 mins
13	Logic Gates	57 mins
	41 Reflection at Plane Surface → 229 Min (12 th)	
01	Definition of Object & Image, Laws of Reflection, Mathematical Representation of Laws of Reflection, Image Formation by Plane Mirror, Few Basic Characteristics of Palne mirror	80 mins
02	Different Characteristics of Plane Mirror - Rotation of reflected ray on ratating mirror, Minimum Height & width of the mirror to see height and width, Number of images due to multiple refection between two inclined mirrors	90 mins
03	Deviation at Plane Mirror, Velocity of Image	59 mins
	42 Reflection at Curved Surface → 278 Min (12 th)	
01	Spherical Mirror, Various definitions, image formation, mirror formule (introduction)	63 mins
02	Application of Mirror Formula in Various Situation	82 mins
03	Solution Technique to solve Problem Based on Multiple Reflection, Results related to various position of object and corresponding position of image	73 mins
04	Conjugate Positions, Velocity of Object & Image in spherical mirror, General Results	60 mins
	43 Refraction at Plane Surface → 206 Min (12 th)	
01	Refration, Laws of Refraction, Refractive Index, Refraction at Plane Surafce, Deviation, Critical Angle, Total Interanl Reflection	76 mins
02	Image formation due to refraction at plane surface, relationship between o-distance and image distance in refraction at plane surface	80 mins

HW 8/5/17

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03	Refraction at Slab, Few illustration	50 mins
44 Prism → 166 Min (12 Hr)		
01	Prism, Prism Anagle, Refration on prism, Deviation, Minimum Diviation by prism, maximum deviation by prism, Range of angle of incidence for which light ray will emerge from prism	61 mins
02	Explanation of Range of angle of incidence for light ray to emerge from 2nd surface, Small angled prism, image formation by small angled prism,	39 mins
03	Dispersion, Application of dispersion concepts, dispersion due to prism, combination of prism	66 mins
45 Lens (Refraction at Curved Surface) → 347 Min (12 Hr)		
01	Refraction at spherical surface, Derivation, Concept of Thin lens, Different types of lens	73 mins
02	Focus & Focal length of the lens, Lens formula, concepts related to lens, Derivation of lens formula	75 mins
03	Application of Lens Formula, Position of image for various positions of object,solving problem based on lens	75 mins
04	Combinarion of Lens, Effective Focal Length, Silvering the lens	82 mins
05	Power of Lens, Conjugate positions, Cutting a lens	42 mins
46 Interference → 259 Min (12 Hr)		
01	Wave nature of light, Definition of interference, Constructive and Destructive interference, Coherent sources, Interference pattern and nomenclature for fringe pattern	83 mins
02	Different Types of Path difference, YDSE basic experiment & results	86 mins
03	Modified YDSE, effect of insertion of transparent film in front of slits, Loyod's mirror, Fresnel's Biprism experiment, Interference of white light	90 mins

CHEMISTRY

01 Mole Concept → 388 Min (11th)
(Free Trial)

01	Law of Chemical Combination,Gaylusac's law, Avagrodo's Law, Terms used is mole concept	45 mins	VOD
02	Avrage Atomic Mass, Avrage Molor Mass, Vapour Density, Absolute Density	48 mins	VOD
03	Experimental Method of Determining Atomic Masss, Calculation of % by Mass of Element, Calculation % of by Mass of Compound	52 mins	VOD
04	Defination of Mole	48 mins	
05	Empirical And Molecular Formula, Method to Determine E.F. & M. F.	46 mins	
06	Stoichometry as Reaction, Method To Solve problems of Stiochiometry	55 mins	
07	Limiting Reactant/ Reagant Concept, Method to solve L. R concept	46 mins	
08	Concentration Terms	48 mins	

02 Atomic Structure → 961 Min (11th)

01	Daltons atomic theory, faraday's experiment, Discovery of electron,	71 mins
02	Discovery of Proton, J.J. Thomson's Model of Atom, Rutherford's alpha particle scattering experiment, Model of Atom	69 mins
03	Bohr's Model (Till Energy of e–)	61 mins
04	Bohr's Model (Till I.E/S.E) and Numerical	61 mins
05	H-Spectrum (Series Limit)	67 mins
06	H- Spectrum	66

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	mins
07 De-Broglie concept	71 mins
08 Heisenberg's Principle	79 mins
09 Schrodinger's wave Equation	59 mins
10 Q. No. (Till azimuthal Q. No.)	82 mins
11 Quantum Number Finished	68 mins
12 Aufbau Principle	76 mins
13 Hound's Rule/Pauli's extension Principle	62 mins
14 Radial Probability dis. Function and nodes	69 mins
03 Redox and Volumetric Analysis → 336 Min (11H)	
01 Definition of Oxidation & Reduction, Calculation of oxidation Namber-1	54 mins
02 Oxidation Number Calculation using suretiés, Ion-electron method of banging equation	57 mins
03 Oxidation Number Method of balancing, Equivalent concept introduction, n-factor calculation	69 mins
04 Equivalent concept, Law of equivalence, Equivalent weight, Numerical	42 mins
05 Titrations, back titration, Double titration, Normality	61 mins
06 Iodometric & Iodometric, Volume strength of H2O2, % availability of Cl2, % strength of oleum, Hardness of water	53 mins
04 Chemical Equilibrium → 235 Min (11H)	
01 Definition, Type of reaction (irreversible & reversible), properties of	38

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	chemical equilibrium	mins
02	Law of mass action, Equilibrium Constant, Properties of equilibrium constant, Various equilibrium constants Kc, Kp, Kx, Relation between Kc & Kp	47 mins
03	Relation between kc & Kp, Units of equilibrium constant, writing excretion for Kp & Kc, homogenous & heterogeneous equilibrium, Reaction quotient, Qp & Qc & significance	39 mins
04	Numerical, on key. & Q, pressure & Kp, % completion of reaction, using neglect ion while making calculations	43 mins
05	Thermodynamics & Equilibrium, Le-Chatelier principle, Application of Le-Chatelier, Phase equilibrium, Hygroscopic/Efflorescence, Simultaneous or parallel equilibrium	68 mins
05	**Ionic Equilibrium** → 320 Min (11th)	
01	Electrolytes, Arrhenius concept of acid & base, Bronsted concept of acid & base, Bronsted concept of acid & base, lenis concept of acid & base	47 mins
02	Properties of H2O, pH-scale & application, Kw, Ka, of water	51 mins
03	Ostwald's dilution law, pH of weak base, Mixture of acids, Polyprotic acids	66 mins
04	Salt hydrolysis, Complete salt Incomplete salt, SASB, SAWB, WASB, WAWB, Amphiprotic, polyvalent ions, Numerical	63 mins
05	Buffers, solubility	61 mins
06	Theory of indicators	32 mins
06	**Gaseous State** → 495 Min (11th)	
01	Boyles Law	53 mins
02	Charles, P-T Law	63 mins
03	Ideal gas equation, Dalton's Law Vapour. Liquid Equilibrium	87 mins

04 Graham's law KTG, molecular speed, Maxwell.	85 mins
05 Real gas, Vanderwal	68 mins
06 liquefaction, Critical constants, Joule-Thompson effect	65 mins
07 heat capacity, Collision theory	74 mins
07 Chemical Energetics → 372 Min (11 H)	
01 Introduction Definition of system, surroundings & universe, boundary	56 mins
02 Heat & Work, (processes and definition)	51 mins
03 IUPAC sign conversion, Zeroth law of thermodynamics, first law of thermodynamics	55 mins
04 Graphs, Work calculation cyclic process, polytrophic process, second law of thermodynamics, Introduction to entropy	59 mins
05 Criteria for spontaneity Gibb's free energy, Third law of thermodynamics	39 mins
06 Thermo chemistry Introductions, Enthalpy & Internal energy relation, carrier Laplace law & hen law, enthalpy of formation	51 mins
07 Enthalpy of combustion, transition ....., Bond energy atomisation energy, resonance energy	61 mins
08 Chemical Kinetics → 354 Min (12 H)	
01 General concept, Rate of chemical reactions, instantaneous rate of reaction, factor affecting the rate of chemical reaction, Molecularity of chemical reaction	57 mins
02 Order of Reaction, different example for order of reaction, Integrated rate const. For 1st order of reaction, half time	66 mins
03 Question discussion of ex.1 of IIT-JEE Sheet, amount remaining after n half life integrated rate expression for zero order ,2nd order and nth order reaction and their half life	62 mins
04 Collision theory of reaction rate, threshold energy, activation of energy, effect of temp on reaction rate, orientation barrier, effect	61 mins

	of catalyst	
05	Elect of catalyst, in term of activation energy, threshold energy, temperature coefficient, Arrhenius equation, 1st order kinetics for bacterial growth.	53 mins
06	Ist order kinetics for in term of volume, 1st order kinetics for pressure, Ist order kinetics for sp. rotation, series reaction, parallel reaction, radioactive reaction , half life, decay cont., average life	55 mins
	09 Electro Chemistry → 297 Min (12 Hr)	
01	Definition, Construction of electrochemical cell, Daniel cell(working), Salt bridge (Construction and working),Representation of electrode potential standard electrode, Representation of standard electrode, Calculation of E cell & E. cell, Standard hydrog	68 mins
02	Calomel Electrode(Metal-Metal insoluble salt electrode),Calculation of solubility product and sparingly soluble salt, Calculation of ΔH,ΔS,ΔG for t ne cell & solved, Electrolytic cell definition, Difference between electrolytic cell & electrochemical cel	61 mins
03	Calculation of electrode potential of single electrode, Nernst Equation, Application of Nernst Equation-Calculation of Electrode potential of single electrode, Calculation of pH of solution of Hydrogen electrode, Calculation of equilibrium constant K for	69 mins
04	Question based upon faradays laws of electrolysis, application of Faraday's Law(Electroplating)Numerical Problems	40 mins
05	Product of electrolysis (Determination),Factors on which product of electrolysis & depends, Electrolytic conductance (a) Ohms Law, (b) Conductance, (c) Specific conductance (K),(d) Molar Conductance (λE),Relation between λM λE,(g)Variation of molar conduc	33 mins
06	Calculation of Solubility and Solubility Product, Ionic Mobility, Conductometric Titration curves, Lead storage battery	26 mins
	10 Solid State (Free Trial) → 307 Min (12 Hr)	
01	Types of solid, Difference b/w crystalline and amorphous solid, types of crystaline solid, Some emportant termenology	46 mins VOD
02	Different type of symmetry found in crystal, types of crystal on the basis of intercept made on crystallogrophic axis & angle b/w terms , study of different types of arrangement of atoms	48 mins VOD
03	Different types of arrangement (One dimensional, two dimensional, three dimensional)	70 mins

VOD

04 Hexagonal close packing(HCP) Study of Ionic crystal	58 mins
05 Study of different Ionic crystal, Structure of diomond	44 mins
06 Defect in crystal (Stiochiometric defect & Non-Stiochiometric defect	41 mins
11 Solutions → 346 Min (12 +4)	
01 Solution introduction, solvent, solute, Types of solution, solid liquid solution, mechanism of dissolution of ionic compound, mechanism of dissolution of non redox compounds	58 mins
02 Liquid - liquid solution, gas liquid solution, concentration units, Henry law, application of Henry law	56 mins
03 Application of Henry law, limitation of Henry law, vapour pressure, factor affecting the vapour pressure, Raoult's law, Raoult's law for solution two volatile liquid	59 mins
04 Raoult's law for solution of non volatile solution, Ideal solution, Non ideal solution, +ve deviation, –ve deviation, different graph of ideal & non ideal solution, colligative properties relative lowering of vapour pressure, elevation in boiling point	63 mins
05 elevation in pooling point, depression in freezing point, Osmotic pressure	56 mins
06 Osmosis, reverse osmosis, isotonic, hypertonic, hypotonic, van Hoff equation for osmotic pressure, different examples, abnormal molecular mass	54 mins
12 Surface Chemistry → 203 Min (12 +4)	
01 Terminology for adsorption, Mechanism of adsorption, type of adsorption, type of adsorption isotherm ® Freundlich isotherm, Langmuir adsorption isotherm	52 mins
02 Colloidal solution : Introduction of colloidal solution, Classification of colloidal solution (a) on the basis DP & DM, (b) on the basis of interaction between DP & DM, (c) on the basis of particle size, (d) on the basis of charge, Development of charge &	65 mins
03 Methods of prp of colloidal solution (a) chemical method, (b) Dispersion method ® Mechanical, electrical (C) Peptization,	48 mins

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purification of colloids ® ultrafiltration, dialysis; properties of colloidal solution	
04 Coagulation or flocculation, hardy & Schulz rule, emulsion, application of colloidal solution	38 mins
13 Periodic Table → 240 Min (11th)	
01 Development, periodicity, periodic law, relationship with electronic configuration, lay out of periodic table.	60 mins
02 Introduction of periods, groups, blocks, Explanation of properties of elements of differentiation groups, causes of,periodicity, screening effect atomic radius	54 mins
03 Factors effecting atomic radius, isoelectronic species, Ionisation energy, factors affecting, variation, successive ionisation energy	64 mins
04 Electron affinity, electron gain enthalpy, successive electron gain enthalpy, factors influencing application. Electro negatively factors influencing, application trend periodic table	62 mins
14 Chemical Bonding → 775 Min (11th)	
01 Bond Definition & classification, Ionic Bond, Lattice Energy & factors, Hydration solution energy & factors	44 mins
02 Solubility Criteria, Covalent character in ionic compound, Polarisation, polarizability & polarising power, Fajans rule	52 mins
03 Covalent bond, Co-ordinate bond, Lewis octet rule, Lewis structure	56 mins
04 Lewis structure for polyatomic ions, formal charge, VSEPR theory	64 mins
05 VSEPR theory (all possible shape and geometry, comparison of bond angle)	66 mins
06 VSEPR theory (Comparison of bond angle, effect of multiple bonds, shape of oxyacids), VBT (s bond)	57 mins
07 VBT (p bond), Bond length and bond energy, covalency, Naming of p-bond, Hybridisation	77 mins
08 Hybridisation (orbitals involve in hybridisation), d-orbital contraction, bent's rule and its application, hydrolysis of some ionic compounds, molecular orbital theory.	81 mins
09 Molecular orbital theory (formation of bonding and antibonding	77

	molecular orbitals, energy level diagram, magnetic property, stability of molecules, bond order)	mins
10	Dipole moment (for diatomic molecules, for polyatomic molecules, comparisons), % Ionic character on the basis of dipole moment, Effect on bond length and energy due to resonance, properties of covalent compounds	77 mins
11	Metallic bond, physical properties of molecular compounds, Hydrogen bond (Intermolecular and intramolecular), Application of Hydrogen bond	76 mins
12	Van der waals force of attraction, banana bonding, back bonding	48 mins
	15 Hydrogen Family → 119 Min (11th)	
01	Position preparation physical & chemical properties, isotopes, different forms hydrides	65 mins
02	Chemical & physical properties of water, hardness of water, heavy water hydrogen peroxide, preparation physical & chemical properties, uses	54 mins
	16 p-block Element → 840 Min (11th) / (12th)	
01	General electronic configuration, inert pair effect, Periodic properties	51 mins
02	Banana bond in B2H5, Hydrides of p-block elements, oxides of p-block elements (B-family and C-Family)	58 mins
03	Oxides of p-block elements ('N'-family, 'O'-family and halogens)	59 mins
04	oxyacids of p-block elements (Halogens, S, N & P), Halides of p-block elements ('B' - family and 'c' - family)	73 mins
05	Halides of p-block elements ('N' family), some special properties ('B' - family and 'C' - family)	62 mins
06	Some special properties ('C' - family, 'O' - family, halogens and Noble gas), chemical properties (Noble gas)	62 mins
07	Chemical properties (Noble gas, halogens)	76 mins
08	Chemical properties (halogens, 'O' - family)	78 mins

06 Work Power Energy → 214 Min (11th)		
01 Work done by a constant for completed, Work done by a variable fore continue	75 mins	
02 Work done by variable force, Work energy theorem, considation force	77 mins	
03 Nonconservative force, potential energy, principle of conservation of mechanical energy, Power	62 mins	
07 Laws of Conservation (Free Trial) → 677 Min (11th)		
01 Centre of mass	50 mins	VOD
02 Centre of Mass (sub points)	46 mins	VOD
03 Centre of mass (Last Part)	50 mins	VOD
04 Linear Momentum & Momentum Conservation Principle	48 mins	
05 Question Based on linear momentum, Conservation principle & Collision starts	49 mins	
06 Elastic-Inelastic collision, Newton's Law of Collision, Perfectly elastic head on collision	49 mins	
07 Perfectly elastic head- on collision, Inelastic head-on collision	47 mins	
08 Perfectly inelastic head on collision & question on collision	54 mins	
09 Oblique collision	43 mins	
10 Oblique collision & Question	44 mins	
11 Variable mass system, Rocket propulsion	46 mins	

09 Chemical properties ('O'- family)	79 mins
10 Chemical properties ('O' - family and 'N' - family)	88 mins
11 Chemical properties ('N'-family and 'C'-family)	81 mins
12 Chemical properties ('C'-family and 'B'-family)	73 mins
17 s-block Element → 257 Min (12th)	
01 Content not available	69 mins
02 Content not available	65 mins
03 Content not available	62 mins
04 Content not available	61 mins
18 Salt Analysis → 164 Min (12th)	
01 Introduction, Preliminary test colour small deliquescent test, salt heating in a dry test tube gas (a) colourless and odourless (b) Colourless and odour gas, (c) Coloured and odour gas, starch paper & types, Types of flame. gas,	33 mins
02 Charcoal test, cobalt nitrate test, flame test, borax bead test	36 mins
03 wet test for basic radicals	32 mins
04 wet test for acid radicals	63 mins
19 Coordination Compound → 558 Min (12th)	
01 Addition compounds, type of addition compounds, type of co-ordination compounds, Terminology in co-ordination compounds	58 mins
02 Classification of ligands	57 mins

03 Ambidentate ligands, Co-ordination No. and oxidation state of central metal, EAN, Werner's theory	57 mins
04 Werner's theory, IUPAC Nomenclature	62 mins
05 IUPAC Nomenclature, VBT (Co-ordination No. = 4)	52 mins
06 VBT (Co-ordination No. = 6), CFT	61 mins
07 Factors affecting D or CFSE, stability constant, factors affecting stability of complex, colour in Co-ordination compounds (d-d transition and charge transfer) structural isomerism	77 mins
08 Stereo isomerism (geometrical and optical)	75 mins
09 Optical isomerism, metal carbonyls, application of Co-ordination compounds	59 mins
20 Transitional Element → 238 Min (12th)	
01 General properties of transition elements	49 mins
02 General properties of transition elements	66 mins
03 Compounds of transition elements ($K_2Cr_2O_7$, $KMnO_4$, Ag_2O, $Ag_2S_2O_3$)	65 mins
04 Compounds of transition elements ($AgNO_3$, Fe_2O_3, ZnO, $FeCl_3$, $ZnCl_2$, $FeSO_4$, $ZnSO_4$, $CuSO_4$)	58 mins
21 Metallurgy → 188 Min (12th)	
01 Minerals, ores, Important minerals and ores of some metals, Metallurgical operations (step-1 & 2)	50 mins
02 Metallurgical operations (step 3, 4 & 5)	49 mins
03 Ellingham diagram, metallurgy of Fe, Sn, Cu	48 mins
04 Metallurgy Pb, Al, Ag, Au	41

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	mins
22 Chemistry in everyday life → 70 Min (12th)	
01 Application of chemical in medicine	31 mins
02 Use of chemical nearo logical active DRUG, Antibiotic, Soap, detergent	39 mins
23 Classification of nomenclature → 302 Min (11th)	
01 Classification, Type of C,H, Halide, Alcohol, Type of Amine, Homologous, Degree of Unsaturation	46 mins
02 IUPAC nomenclature Introduction, IUPAC rules, IUPAC Naming of saturated hydrocarbon alkane	44 mins
03 Type of hydrocarbon group ,Naming of Hydrocarbon with Complex substituent, IUPAC naming of unsaturated compound	47 mins
04 IUPAC naming of compound with functional group, priority table, IUPAC name of different categories, IUPAC name with multiple functional group	57 mins
05 IUPAC name of Alicyclic Compound, IUPAC name of Bicyclo Compound, IUPAC name of Spiro Compound	55 mins
06 Oxa Nomenclature, Common naming, Aromatic compound naming	53 mins
24 Isomerism → 418 Min (11th)	
01 Introduction of Isomerism,Types of structural Isomerism (a) Chain isomerism, (b) Position isomerism, (c) Ring Chain isomerism,(d) Functional isomerism, (e) Metamerism	35 mins
02 Determination of total no. of Structural Isomers,Introduction of Tautomerism,Keto- Enol Tautomerism,Mechanism of Keto-Enol Tautomerism,Factor affecting Keto-Enol; tautomerism (a) Resonance and aromalicity, (b) Hydrogen bonding	51 mins
03 Factor affecting enolisation, (c) Acidic nature of α-H,(d) Steric hindrance (e) Solvent effect, Para tautomerism,Type of tautomerism, Conformational Isomerism,Conformers of ethane and propane	45 mins
04 Conformers of Butane,Cases where Gauche form is more stable, Baeyer Strain theory, Conformers of Cyclohexan (a) Chair form, (b)	54 mins

	Boat form, (c) Twist boat (d) half Chair form	
05	Geometrical isomerism conditions, Categories of comp. Showing G.I.(a) Alkene (b) Cyclokane, (c) Cycloalkene, (d) Oximes	44 mins
06	Elz nomencleture, Optical isomerism, Polarimeter, PPL, θ, Chiral Centre , Stero Centre, Chiral Comp, Enantiomers	47 mins
07	Diastereomer,R-S configuration in fisher, conversion of wedge and dash in fisher, Symmetry element (a) POS (b)Cos	43 mins
08	AAOS, AOS, Relation B/W isomers, Meso compounds, Optical activity in compounds without C.C, Erythreo & threo	46 mins
09	Mono chlorination of alkane, D-L configuration, Amine inversion, conversion of various formula, calculation of optical isomer, calculation of stereo isomer	53 mins
	25 General Organic Chemistry → 574 Min (11 hr)	
01	General acid bask concept, Character importance in acid base bond length, S character with bond length, Inductive effect (initial part)	67 mins
02	Application of inductive effect (a) acidic strength of alcohol, (b) Acidic strength of carboxylic acid, (c) stability of intermediate ® cation, anion, free radical, (d) Basicity of amine ® In gas phase, in protic solvent.	62 mins
03	Resonance introduction, condition and stability comparison, type of conjugated system	63 mins
04	Mesomeric effect +m, -m effect, Application of mesomeric effect, Reactivity of orientation in mono substituted benzene ring	57 mins
05	Aromaticity	22 mins
06	Aromaticity (cont.)	51 mins
07	Stability of intermediate Bond length & Bond order, Acidic strength comparison	61 mins
08	Acidic strength comparison, basic strength comparison, SIR effect, SIP effect, Determination & comparison of Resonance energy	59 mins
09	Hyper conjugation, Application of hyper conjugation, Directive influence of alkyl grp, Acidic & basic nature comparison, Directive influence of CCl3 grp, stability of alkene, stability of intermediate	65 mins

10	Type of Intermediate (a) Carbocation, formation & Rearrangement of carbocation, (b) Free radical, formation & reaction, (c) carbene, type & formation, (d) carbanion formation	67 mins

26 Hydrocarbon → 532 Min (11th) (12th)

01	Introduction, Electrophilic addition reaction, mechanism, imp points, Examples of Electrophilic addition reaction, addition of HX, Addition of H2O in acidic medium, Rearrangement product in electrophilic addition reaction, addition of halogen	64 mins
02	Hydroboration oxidation, OMDM, Addition of halogen and water, formation of diols ® sym diols, anti diols | hydrogenation of unsaturated compound, Reduction of ® Alkene, Alkyne	57 mins
03	Peroxide effect, Electrophilic addition reaction of conjugated diene, Diels alder reaction, stereochemistry of electrophilic addition reaction	62 mins
04	stereochemistry of Electrophilic addition, ozonolysis of alkene & Alkyne	63 mins
05	Methods of prp of alkene, Dehydrohalogenation a ® E1, b ® E2, c ® E1CB	60 mins
06	Dehalogenation, dehydration of Alcohol, thermal decomposition of antennary ammonium sell, Thermal elimination of tertiary amine oxide, pyrolysis ester, within reaction	65 mins
07	Alkyne : Methods of prp, chemical properties (1) Acidic nature of tesminarp Alkyne, (2) Electrophilic addition reaction, (3) Reaction alkyne & alkyne with kot & cone KmnO4	58 mins
08	Alkane : Methods of prp of Alkane	55 mins
09	Chemical reaction of Alkane (1) halogenation of Alkane, (2) Isomerisation, (3) Aromatisation, (4) pyrolysis or cracking, (5) Nitration & sulfonation	48 mins

27 Aromatic Chemistry → 210 Min (12th)

01	1. Aromatic,Antiaromatic and Non Aromatic 2. Annulenes 3. Anomaticity in Heterocyclic compound 4. Aromaticity and dipol moment 5. Fries Rule	42 mins
02	Introduction of electrophillic aromatic substitution (EAS) Nitration of benzene, Halogenation of benzene, sulphonation	44 mins
03	Friedel craft alkylation, friedel craft acylation, limitation of friedel craft reaction	47 mins

04	Intramolecular friedel craft reaction, reaction and orientation effect in mono substituted benzene, comparative rate of reaction in benzene	39 mins
05	Orientation effect in disubstituted benzene, EAS reaction of chloro benzene, EAS reaction of toluene, additional reaction of benzene	38 mins
	28 Halogen Derivatives → 344 Min (12 th)	
01	Nucleophile substitution reaction (1) SN1 reaction, (2) SN2 reaction	59 mins
02	Competition between SN1 & SN2, SNI, SNGP, Competition between substitution & elimination	67 mins
03	Chemical reaction of Alkyl halide (i) Williamson etherification, (ii) Hydrolysis of alkyl halide, (iii) reaction with KCN. AgCN, (iv) reaction with AgNO2 & KNO2, (v) reaction with Ag2O, (vi) other Nu sub reaction	57 mins
04	Methods of preparation of alkyl halide (1) From alcohol (a) with SOCl2, (b) with PCl3, PCl5, (c) HX, (d) use of tosyl chloride (2) Hunsdiecker reaction (3) halide exchange method	45 mins
05	Haloform reaction, Nucleophilic substitution reaction of aryl halide (a) SNAR, (b) Benzyne mechanism	64 mins
06	Chemical reaction & methods of prp of Grignard reagent	52 mins
	29 Alcohol, Phenol & Ether → 174 Min (12 th)	
01	Introduction, monohydric, dihydric trihydro, polyhydric alcohol carbinol system preparation of alcohol	40 mins
02	Preparation and chemical property of alcohol	32 mins
03	Chemical property of alcohol	28 mins
04	Prep. & properties of phenol	42 mins
05	Prep. & properties of ethers, prep of aldehyde & ketones	32 mins
	30 Carbonyl Compounds → 111 Min (12 th)	

01	Preparation and properties & aldehyde and ketones (Aldol condensation)	25 mins
02	Chemical properties of aldehyde & ketones	26 mins
03	Chemical properties of aldehyde & ketones	22 mins
04	Chemical properties of aldehyde & ketones	38 mins
	31 Carboxylic Acid and Its Derivatives → 55 Min (12th)	
01	Carboxylic acid & their derivatives	23 mins
02	Carboxylic acid & their derivatives	32 mins
	32 POLYMER → 55 Min (12th)	
01	Classfication of Polymer: (A) On the basis of Source (B) On the basis of attraction forces (C) On the basis of structure (D) On the basis of mode of polymerisation	55 mins
	33 CARBOHYDRATE,PROTEIN,NUCLEIC ACID → 179 Min (12th)	
01	Classification of Carbohydrate, Glucose, Cyclic structure of glucose and fructose	57 mins
02	Disacharide,Polysaccharide,Test of Carbohydrate	38 mins
03	Protein, Amino Acid,Structur of Protein,Test of Protein	41 mins
04	Nucleic Acid, Vitamins,Enzymes	43 mins
	34 Amine → 129 Min (12th)	
01	Claassification and nomenclature of amine, methods of prp of amine , chemical reaction of amine with HNO2	49 mins
02	Chemical Reaction of Amine, Separation of 1°,2°,3° Amine, Chemical reaction of Aniline, Benzene Diazoniom Salt	56 mins

03 Chemical Reaction Of Cynide, Chemical reaction of Isocynide, Chemical Reaction of nitrobenzene	24 mins	

BIOLOGY

01 Plant Diversity and Lower Plants (Free Trial) → 1192 Min (11th)

01 Living world-Taxonomy,Nomenclature	51 mins	VOD
02 Living world-Binomial Nomenclature,Taxonomic Hierarchy,Concept of Species	46 mins	VOD
03 Living Worls-Concept of Species,Taxonomical Aids	46 mins	VOD
04 Living World-Taxonomical AIDS-iIBiological Classification,Kingdom Classification	51 mins	
05 Kingdom Monera-Arche Bacteria,Eubacteria(General History)	45 mins	
06 Kingdom Monera-Eubacteria-I	57 mins	
07 Bilogical Classification-Eubacteria-II	53 mins	
08 Biological Classification-Eubacteria-III	41 mins	
09 Biological Classifcation-Sexual Recombination,Actionomycetes	51 mins	
10 Biological Classification- Blue green alage,Mycoplasm	59 mins	
11 Biological Classification- Kingdom protista-I	51 mins	
12 Biological Classification-Protista-II	56 mins	
13 Biological Classification-Fungi-I	52 mins	

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14 Biological Classification-Fungi-II	54 mins
15 Fungi (Last Part), Virus, Linchens	77 mins
16 Algae -1	56 mins
17 Algae -II, Lower Plants Member	48 mins
18 Bryophytes -I	68 mins
19 Bryophytes -II	47 mins
20 Pteridophytes -I	45 mins
21 Pteridophytes -II	51 mins
22 Gymnosperms -I	47 mins
23 Gymnosperms -II and Mycorrhiza	40 mins
02 Animal Diversity and Lower Animals → 1116 Min (11.H)	
01 Basis of clasification - 1st	68 mins
02 Basis of clasification - 2nd	58 mins
03 Protozoa and porifera	87 mins
04 Porifera contd. Coelentrata ctenophora	47 mins
05 Platyhelmenthese and nemathelminthese	54 mins
06 Annelida and arthropoda	73

		mins
07	Arthropoda contd. ,mollusca,echinodermata	80 mins
08	Echinodermata contd. ,hemichordata,chordata & their general character	79 mins
09	Protochordata,cyclostomata pisces	75 mins
10	Amphibia reptilia	70 mins
11	Aves,mammals	33 mins
12	Ascaris (Lower animal)	73 mins
13	Frog	61 mins
14	Frog & plasmodium	62 mins
15	Plasmodium,earthworm	66 mins
16	Earthworm & cockroach	81 mins
17	Cockroach	49 mins
	03 Animal Tissue → 287 Min (11 H)	
01	Epithelium tissue	53 mins
02	Gland & Connective (C.T. cells, C.T. Fibre, Matrix), Types of connective tissue	61 mins
03	Suppoeting connective tissue (cartilage & Bones)	62 mins
04	Blood	53 mins

12 Impulse & Question based on centre of Mass	52 mins
13 Examples on conservation of liner momentum principle	51 mins
14 Examples on conservation of liner momentum & collision	48 mins
08 Rotational Motion → 593 Min (11th)	
01 Rotational motion (Moment of inertia)	64 mins
02 Rotational motion (Moment of inertia)	62 mins
03 Rotational motion (Moment of inertia + Torgue & Equilibrium)	73 mins
04 Rotational motion (Newton's 2nd law in rotational motion & application)	57 mins
05 Rotational motion (Rotational kinetic energy & its application)	58 mins
06 Rotational motion (Basic idea of rolling motion)	71 mins
07 Rotational motion (Problem based on rolling motion on horizontal surface)	60 mins
08 Rotational motion (Rolling are the inclined surface)	52 mins
09 Rotational motion (Instantaneous centre of rotation & toppling	53 mins
10 Rotational motion (Angular momentum & its Conservation)	43 mins
09 Simple Harmonic Motion → 630 Min (11th)	
01 Definition of periodic motion, Oscillatory Motion, Simple Harmonic Motion, Force and acceleration in SHM, Velocity and acceleration in SHM as a function of displacement- from mean position.	48 mins

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05 Blood (Blood Clotting + Blood Groups)	58 mins
04 Plant Anatomy → 523 Min (11 hr)	
01 General Introduction, Type of tissue, Meristematic tissue, Characterstic feature & type	75 mins
02 "Type of meristematic tissue, Theories regarding apical meristerm, Permanent tissue, Simple permanent tissue , Parenchyma (character & type), Collenchyna (character)"	87 mins
03 "Collenclyma (Type), Sclerenchyma (Type and character), Fiber (Type), Complex tissue , Xylem structure & Function"	86 mins
04 Phloem structure & function, Secretory tissue, Laticiferous tissue, Glandular tissue	51 mins
05 Tissue system, Epedermal tissue system, Ground tissue system, Vascular tissue system, Internal structure of monocot and dicot stem	80 mins
06 "Internal structure of root and leaf of dicot and nonoocot plant "	59 mins
07 "Secondary growth, Secondary growth in Root, Sccondary growth in Stem, Spring wood and heart wood Annual Ring, Heart wood and sapwood bark, Wound Heating and leaf, Abscission, Wood"	85 mins
05 Plant Morphology & Families of Angiosperms (Free Trial) → 317 Min (11 hr)	
01 General Character, Root	49 mins VOD
02 Stem	40 mins VOD
03 Leaf, Inflorescence	46 mins VOD
04 Flower	70 mins
05 Fruit, Fruit & Seed Dispersion	57 mins

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06	Families of Angiosperms	55 mins
	06 Protoplasm & Biomolecules → 367 Min (11 hr)	
01	Nucleic Acid, Nucleotide, Nucleoside, Deoxyribose Nucleic acid (DNA) Structure	53 mins
02	Types of DNA, Chargaff rule, Base Ratio, Characteristic of DNA	35 mins
03	C-Value of DNA,RNA: Types of RNA,DNA replication, Method and Type	41 mins
04	DNA replication-Procedure,Steps,Transcription	46 mins
05	Protein synthesis, Split gene	41 mins
06	Genetic Code: Characteristic of Codon, Wobble hypothesis, Bio molecule, Carbohydrates-Classification	45 mins
07	Carbohydrate : Monosaccharide, Oligo saccaride ,Polysaccharide	43 mins
08	Lipid: Classification of Lipid. Protein: General, Amino acid types, Protein structure, Type of Protein	63 mins
	07 Cell Biology → 601 Min (11 hr)	
01	Introduction to cell, History of cell biology, Origin and evolution of cell, Type of cell,	70 mins
02	Outline of cell structure, Cell wall, Composition, structure, growth	100 mins
03	Cell membrane structure, functions	73 mins
04	"Cytoplasm, mitochondria, structure function endosymbiotic theory "	65 mins
05	Plastid - structure, Chromoplast - pigments, Chloroplast - structure function, Endoplasmic reticulum - structure function, Golgi body - structure & function	117 mins
06	Lysosome-structure, function, Ribosome-general	47 mins

07	Ribosome-structure, function, Centrosome - structure, function	68 mins
08	"Cillia/flagella - structure, function, Microbodies - peroxisome, spherosome and Glyoxisome vocuole, cytosketel component "	61 mins
	08 Plant Water Relation → 346 Min (11th)	
01	Osmotic pressure,Turgor pressure,Diffusion Pressure,Deficient water potential,	46 mins
02	T.P.,D.P.D,Water potential,Types of Membranes	40 mins
03	Imbibition,Plasmolysis,Types of soil water,Water absorbing organs	41 mins
04	Pathway of Water,Food & Mineral conduction,Mech of Water Absorption	60 mins
05	Examples for conducting tissue of water & food,Mech. Of Ascent of sap,mech. Of Food Translocation	36 mins
06	Transpiration.Ttypes of Transiration,Structure of stomatal apparture,Mecn. Of transpiration,Mecn. Of Opening & closing of stomata	43 mins
07	Mineral Nutrition,Essential Elements,Mechnism of mineral absorption	41 mins
08	Nitrogen Matabolism	39 mins
	09 Plant Growth → 117 Min (11th)	
01	Plant Growth-Characterstics,Plant growth measurment,Plant growth activities,Plant growth regulation,Vernalization	44 mins
02	Photoperiodism,Plant growth regulators,Auxin,Gibberellin	42 mins
03	Cytokinin,Abscisic Acid/ABA,Ethylene	31 mins
	10 Photosynthesis → 135 Min (11th)	
01	Introduction,Biochemical reaction of photosynthesis,Site of photosynthesis,Photosynthetic pigments and pigment system	45 mins

02	Mechanism of Photosynthesis,Cyclic ETS/Photophosphorylation,Noncyclic ETS/Photophophorylation,Mechanism of Dark reaction,C3 cycle/calvin cycle	50 mins
03	C4 pathway,Photo respiration	40 mins
11	**Cell Respiration** → 95 Min (11th)	
01	Cell Respiration-Introduction,Types of cell Respiration,Aerobic Respiration,Glycolysis,Kreb's Cycle	49 mins
02	ETS/Oxielative Phosphorylation/ Terminal oxidation of reduced co enzymes,Cheriosmotic Theory,Anaerobic repiration,Bioenergetics of aerobics repiration,respiration quotient	46 mins
12	**Enzymes** → 70 Min (11th)	
01	General Properties	36 mins
02	Structure of enzymes	34 mins
13	**Respiratory System** → 231 Min (11th)	
01	Respiration and types of respiration	66 mins
02	Lungs,covering of lungs,structure and function of lungs	49 mins
03	External and internal resspiration,partial pressure,regulation of breathing & ventilation	77 mins
04	Different volume and capicities of lungs	39 mins
14	**Digestive System** → 357 Min (11th)	
01	Mouth,buacal cavity,palate tongue	72 mins
02	Pharynx,teeth,neuldayer ring	76 mins
		68

03 Salivary gland,histology of alimentary canal	mins
04 Structure of alimentary canal,Liver	73 mins
05 Pancrease,mechanism of diagation,Absorption and Assimilation	68 mins
15 Nervous System → 376 Min (11th)	
01 Nerve implese transmission	71 mins
02 Synapse,Brain	59 mins
03 Brain,spinal cord	55 mins
04 Brain,spinal cord	62 mins
05 Spinal cord,PNS	75 mins
06 PNS,ANS	54 mins
16 Circulatory System → 224 Min (11th)	
01 Types of circulation,heart and structure of heart	75 mins
02 Heart,conduction system of heart	77 mins
03 Cardiac output,blood vessel and portal system	72 mins
17 Excretory System → 162 Min (11th)	
01 Different types of excretory organ	75 mins
02 Vessels of kidney and types of nephron	54 mins

03 Urine formation and composition of urine	33 mins
18 Muscular System → 62 Min (11th)	
01 Muscle tissue + Muscles of Limb (contraction)	62 mins
19 Skeletal System → 233 Min (11th)	
01 Skeletal system-1	61 mins
02 Skeletal system-2	48 mins
03 Skeletal system-3	44 mins
04 Skeletal system-4	42 mins
05 Skeletal system-5	38 mins
20 Endocrine System → 453 Min (11th)	
01 Types of gland,harmone,types of harmone	65 mins
02 Difference between harmone & enzyme,different endocrine gland	62 mins
03 Different endocrine gland,harmone	65 mins
04 Different endocrine gland,harmone	65 mins
05 Different endocrine gland,harmone	58 mins
06 Different endocrine gland,harmone	59 mins
07 Pancrease,other acessory endocrine gland,some other chemical messenger	79 mins

21 Sensory Organs → 272 Min (11 hr)	
01 Skin,Eye	78 mins
02 Eye	59 mins
03 Eye,ear	72 mins
04 Ear,olfactory reeptor,tongue	63 mins
22 Sensory Systems → 62 Min (11 hr)	
01 Reproductive system,its origin and development	62 mins
02 No Data	0 mins
23 Human Reproduction & Reproductive health → 788 Min (12 hr)	
01 Reproductive system,its origin and development	62 mins
02 Male reproductive system	62 mins
03 Female reproductive system (Ovary)	64 mins
04 Female reproductive system	56 mins
05 Formation of graffian follicle,menstrual eycle	71 mins
06 menstrual eycle,Embyology	69 mins
07 Spermatogenesis	72 mins
08 Oagenesis	61 mins

09 Fertilization	78 mins
10 Parthenogenesis,cleavage	65 mins
11 Enbryogenesis	61 mins
12 Marula,blastula,gastula,derivative of germlayer,types of blastula	67 mins
24 Plant Reproduction & Breeding (12 th)	
01 Content data not available	0 mins
02 Content data not available	0 mins
03 Content data not available	0 mins
25 Genetics → 564 Min (12th)	
01 General,Term,Definition	46 mins
02 Gamete formation ,Checker Board, Back Cross	43 mins
03 Test Cross, Theory of Genetics	47 mins
04 Mendelism, Monohybrid Cross, Dihybrid Cross	50 mins
05 Chromosomal Theory of Inheritance: Exception of Mendel law ,Incomplete Dominance , Co dominance ,Linkage	49 mins
06 Linkage: Type of Linkage, Morgon experiment, Linkage map	45 mins
07 Sex Linkage, Multiple allele	50 mins
08 Human Genetics-Pedigree,Mutation	47 mins

09	Polygenic Inheritance-sex determination, Genetic Disorder	52 mins
10	Mendelian /Non Mendelian disorder-Thalasemia /Sickle cell anaemia(Autosomal)	56 mins
11	Operon Concept,Human Genomle project	23 mins
12	Human Genome project	28 mins
13	DNA Test	28 mins
	26 Origin & Evolution Mutation → 488 Min (12 hr)	
01	BigBang Theory, Theories for origin of life	43 mins
02	Chemical Evolution,Stenley Miller's Experiment,Origin of Ututrophs	47 mins
03	Oxygen Revolution, Origin of Eukaryotes,Evidences of Organic evolution,Evidences from Paleontogy,Evidences from Morphology and Anatomy	56 mins
04	Divergent evolutionAdaptional radiation,Converged evolution,Evidences from connecting link,Evidences from verticle orgon,Evidences from Attarism	50 mins
05	Evidences from Embryology,Evidences from Physiology and Biochemistry, Evidences from Bioggeographicle distribution	60 mins
06	Evidence from Taxonomy	44 mins
07	Darwinism,Mutation theory	50 mins
08	Neo Darwinism,Example of Natural Selection	49 mins
09	Type of Natural Slection,Speciation,Genetic Basis of Adaptation,Hardy-Weinberg Principal	43 mins
10	Human Evolution	46 mins

27 Immunology, Disease → 382 Min (12th)

01 Common Human disease-2 and uergy auto immunihy	58 mins
02 Common Human disease-2 and allergy auto immunity	52 mins
03 Immune system in the Body & Cancer	58 mins
04 AIDS & Drug addiction	46 mins
05 Alcholism, smoking adolesence problem biomedical investigation	58 mins
06 Biomedical investigation ELISA to C.T. Scan	65 mins
07 Imaging technique C.T. Scan, MRI, PET, ECG	45 mins

28 Economic Zoology → 229 Min (12th)

01 Economic Zoology,Animal Husbandary,Livestock,Cattle and Buffalo Horse and donkey,Yak,Camel,Pig,Elephant,Breeding in cattle and buffalo,Sheep and goat,Multiple ovulation and Embryo transfer	69 mins
02 Feeding of Livestock(Cattle Buffalo etc),Poultry Farming,Sericulture	47 mins
03 Apiculture,Lac culture	51 mins
04 Fisheries ,Animal Breeding,Differenrt diseases in livestock	62 mins

29 Biomedical Technologies → 194 Min (12th)

01 Tools of Genetic engineering -Enzyme,Vector,Gene	58 mins
02 Tools of Genetic Engineering-Competent host for gene transfer-process of gentic engineering	45 mins
03 Application of Biotechnology-Agriculture based biotechnolgy	43 mins

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02	Equation of displacement from mean position, velocity and acceleration as a function of time. Phasor representation of SHM . Application of Phasor.	65 mins
03	Problems related to SHM	47 mins
04	Problems related to SHM (solution using Phasor method)	51 mins
05	SHM when mean position is not at (x=0),Nature of force for SHM(Restoring force),Potential energy, kinetic energy and Total energy in SHM .Plot b/w potential and kinetic energy as a function of x(displacement from mean position)	53 mins
06	K.E. and P.E. in SHM as function of time and their average over position and time	42 mins
07	SHM in mechanical system (Spring mass system), Problems	41 mins
08	Problems based on spring mass system. Simple pendulum.	45 mins
09	Simple pendulum in accelerated frame and problems, Compound pendulum & problems. Simple pendulum of length which is not negligible wrt radius of earth	50 mins
10	Problems based on angular SHM and rolling SHM.	54 mins
11	Problems based on angular SHM (Rolling SHM),Damped oscillation.	46 mins
12	Combining SHM & problems.	51 mins
13	Problems based on SHM.	37 mins
	10 Gravitation → 265 Min (11th)	
01	"Newton's Laws of Gravitation Motion of planets in circular orbit, formula for orbital speed & time period."	66 mins
02	Energy of satellites in circular orbits, (PE, KE, TME,) and escape speed	68 mins
03	"Kepler's laws, Concept of gravitation field, potential field & potential of sphencal uniform bodies"	69 mins

04 Application of Biotechnology-Medical based biotechnology(Humulin)-Gene therapy,Trangenic animal,Biopiracy,Bioenergy(Biogas)	48 mins
30 Ecology → 555 Min (12 th)	
01 Organism & Enviroment, Factor Affecting Envirment	48 mins
02 Abiotic Factors(Light, Temperature, Stratification)	45 mins
03 Abiotic Factors (Water, Siol) ,Responses of Organisms	50 mins
04 Adaptation in Animals, Adaptation in Plants	53 mins
05 "Population, Population Growth curves, Community, Characterstics of Population & Community"	47 mins
06 "Ecological Succession, Mechanism Of Succession, Hydrosere, Lithosere"	51 mins
07 Ecological Interaction, Ecosystem	50 mins
08 Consumers, Function of Ecosystem, Energy Flow	47 mins
09 Ecological Pyraminds, Nutrient cycle	46 mins
10 Biodiversity & Conservation, Pollution & Environment Issue	46 mins
11 Air Pollution, Control of Air Pollution	42 mins
12 Water Pollution, Soil Pollution, Sound Pollution ,Plastic Pollution	30 mins
31 Integumentary system	
01 Data not Available	0 mins
02 Data not Available	0

PHYSICS XI th [Air-1 AIIMS/NEET

01.	Essential Mathematics → 147 Min	01
02.	Vectors → 256 Min	02
03.	Error → 42 Min	02
04.	Unit and Dimensions → 213 Min	02
05.	Friction → 118 Min	02
06.	Work, Power Energy → 214 Min	03
07.	laws of conservation → 677 Min	03
08.	Rotational Motion → 593 Min	04
09.	Simple Harmonic Motion → 630 Min	04
10.	Gravitation → 265 Min	05
11.	Properties of Matter → 796 Min	06
12.	NLM → 772 Min	07
13.	Fluid Mechanics → 204 Min	08
14.	General Kinematics → 398 Min	08
15.	Motion in one Dimension → 398 Min	09
16.	Projectile Motion → 298 Min	09
17.	Relative Motion → 272 Min	10
18.	Circular Motion → 146 Min	10
19.	Calorimetric → 212 Min	15
20.	Kinetic Theory of Gases → 242 Min	15
21.	Thermodynamics → 355 Min	15
22.	Heat Transfer → 476 Min	16
23.	Thermal Expansion → 277 Min	16
24.	Transverse Wave → 550 Min	17
25.	Sound Wave → 338 Min	17
26.	Dopplers Effect → 86 Min	17

CHEMISTRY XI th

BIOLOGY XI th

Physics XII th

CHEMISTRY XII th

BIOLOGY XIITH

(13 Hour 8 Min)

01.	Human Reproduction & Reproductive Health → 788 Min	46
02.	Plant Reproduction & Breeding → 130 Min (2 Hour 10 Min)	47
03.	Genetics → 564 Min (9 Hour 24 Min)	47
04.	Origin & Evolution Mutation → 488 Min (8 Hour 8 Min)	48
05.	Immunology, Disease → 382 Min (6 Hour 22 Min)	49
06.	Economic Zoology → 229 Min (3 Hour 49 Min)	49
07.	Biomedical Technologies → 194 Min (3 Hour 14 Min)	49
08.	Ecology → 555 Min (9 Hour 15 Min)	50

04 Relationship between E & V, Variation in g due to height, depth or rotation of earth	62 mins
11 Properties of Matter → 796 Min (11 th)	
01 Elasticity, Stress, Strain, Definitions	46 mins
02 Young's modulus of elasticity & examples	47 mins
03 Examples on young's modulus	44 mins
04 Stress-Strain Curve, Thermal Stress,Bulk Modulus	45 mins
05 Bulk Modulus and examples on bulk Modulus	47 mins
06 Modulus of rigidity, Poisson Ratio, Energy stored in wire	46 mins
07 General discussion on elastic property of material & examples based on elasticity	48 mins
08 Elasticity ends, Viscosity starts, Few examples on viscosity	48 mins
09 Liquid flow through tube, Stokes's Law, terminal velocity	44 mins
10 Stream line flow, Turbulent flow, Reynolds's No., Surface Tension Starts	47 mins
11 Examples on Surface tension, Surface energy	51 mins
12 Surface energy cohesive-Adhesive forces, excess pressure	49 mins
13 Excess Pressure,exampels	46 mins
14 Contact angle,Capillarity	47 mins
15 Example on surface tansion	46

	mins
16 Example on surface tansion	49 mins
17 Example on surface tansion and viscosity	46 mins
12 NLM → 772 Min (11th)	
01 Force & Fundamental forces weight contact force & tension instring	47 mins
02 Spring force & fre body diagram	47 mins
03 Free body diagram	44 mins
04 Inertial & noninertial treme	38 mins
05 Newton's Laws , First Law, Second Law & third Law	54 mins
06 Equilibrium & problems based on Equilibrium	44 mins
07 Problems based on Equilibrium of the body	44 mins
08 Problems based on equilibrium of body & accelerating body	56 mins
09 Contrained Motion & string constrained Problems	35 mins
10 Problems based on string constrained	43 mins
11 Problems based on string constrained	45 mins
12 Problems based on string constrained , Pseudo Force	34 mins
13 Problems discused wing pseudo force	45 mins

14	Problems solved using pseudo force	44 mins
15	Problems based on Constrained motion where pseudo force in used in solution	39 mins
16	Problems based on wedge & string contrained	44 mins
17	Spring Problems & combination of spring , Problem based on massive string	44 mins
18	Problem based on string constrained & massive rope	25 mins
	13 Fluid Mechanics → 204 Min (11th)	
01	"Fluid Mechanics - pressure, density, varation of pressure with ht. (when container is at rest and whenmoving with const. acces) Rotatation of versel"	56 mins
02	U bube, abroluto pressure and gange pressure, Instrument to measure pressure, force due to water on wall	64 mins
03	Pascal's law, Archimedes principle, Floatation	60 mins
04	Fluid dymansics equation of continuty, Bernoulli's equation, Application of Bernoulli's equation	24 mins
	14 Genral Kinamatics → 398 Min (11th)	
01	Introduction, Mechanics, Motion frame of reference, Position vector and path/trajectory	30 mins
02	Distance and Displacement	41 mins
03	Few problems based on distance and displacement, Defining Speed :- Average speed and Instantaneous Speed	44 mins
04	Speed (Avg. and instantaneous) its graphical interpretation on s-t curve. Problems	34 mins
05	Velocity :- Avg. velocity, Instantaneous Velocity	30 mins
06	Problems based on Avg. & Instantaneous velocity. Problem for uniform speed & uniform velocity, Motion with non uniform	50 mins

	velocity, Problem for calculation of distance and displacement	
07	Graphical representation of velocity, Graphical representation of Displacement on Vx Vst, Vy Vst & Vz Vst curve. Definition of acceleration.	33 mins
08	Questions based on Avg. & instantaneous acceleration and. Tangential and Normal acceleration.	50 mins
09	Radius of curvature, Problame based on tangential acceleration, Normal acceleration & radious of curvature	43 mins
10	Graphical interpretation of acceleration, General problem based on velocity, Acceleration equation of trajectory	43 mins
	15 Motion In One Dimension → 398 Min (11 hr)	
01	Motion with uniform acceleration, Types of motion: (i) 1 D Motion, (ii) 2 D Motion, (iii) 3 D Motion	43 mins
02	Motion in one dimension and few problem based on motion in one dimension	52 mins
03	Graphical interpretation of velocity	39 mins
04	Motion in one dimension problems based on graphical interpretation. (V-t curve, A-t curve and a-x curve)	45 mins
05	Rectilinear motion (1 D) with uniform velocity, Graphs, and motion with uniform acceleration.	45 mins
06	Displacement in nth second for 1D uniform acceleration motion, Graph in motion in one dimension. For const acceleration motion.	50 mins
07	Problems based on uniform acceleration & uniform velocity, 1 D motion related to graph	44 mins
08	Motion in one dimension under gravity. General Problems	49 mins
09	Problems based on 1D motion under gravity	31 mins
	16 Projectile Motion → 298 Min (11 hr)	
01	Projectile Motion (Horizontal Projectile)	51 mins