	24 JANUARY C 24	24 14411477 0 00			ee Analysis -Rankers			IANUARY ATTEMPT-		24 JANUARY C 22	4 Fahruami Chiff Od	4 Fahmuamus 00
HAPTER NAME INIT AND	24 JANUARY S-01	24 JANUARY S-02	25 JANUARY S-01	25 JANUARY S-02	29 JANUARY S-01	29 JANUARY S-02	30 JANUARY S-01	30 JANUARY S-02	31 JANUARY S-01	31 JANUARY S-02	1 February Shift-01	1 February s-02 1.Dimensional
MEASUREMENT	1.Diemnsional Formula	1.Dimensional Analysis	1.Unit	1.Dimensional Formula	1.Dimensional Formula	1.Dimensional Analysis	1.UNIT 2.ERROR	1.UNIT	1. Dimensional analysis	1.Dimensional formula	1.Dimensional Analysis	Analysis
KINEMATICS	Projectile Motion Vectors		1.Average Speed 2. Vector(Cross Product)	1.Definition of Velocity	1.Kinetic Energy in Projectile		1.x-t and v-t Graphs 2. Average Speed	1.Average Speed	projectile motion , Time of flight 2. River Problem 3. Max Height in projectile motion	1. Displacement	Projectile motion Average Speed	Projectile motion Uniform Accelaration
AWS OF MOTION	Pseudo Force Newton's law, Wedge blockSystem Newton's 2nd Law	1.Cicular Motion	1.Centrifugal Force	1.Kinetic Friction 2. Projectile concept of equal range	Kinetic Friction Motion in Vehicle on horizontal circular turn Average accelaration in collision	Kinetic Friction Newton's Law Circular Motion Circular Motion	1.Relation b/w force and Momentum	1.Equillibrium Forces 2. Newton's 3rd Law recoil Velocity 3.Circular Motion	Newton's 2nd law 2. Defination of average force	Circular motion in horizontal plane 2. Friction	1.Laws of Motion problem based on Kinetic Friction	
VORK ENERGY AND POWER		1.Power Delivered by Constant Force	1.Work Done by Variable Force	1.Head on Elastic Collision	Kinetic Energy in Rotation Mechanical Energy conservation	1.Work Done by Constant Force	1.Collision 2.Collision	1.Power	1.Work done, kinetic energy	1. Collision	1.Work done by constant force	1.Work done by variable force
ROTATIONAL MOTION	1.Radius of Gyration	1.Moment of Enertia	1.Rotational Equillibrium 2.Moment of Inertia	1.Moment of Inertia	Kinetic Energy in rotation	1.Angular Momentum	1.Roational Kinetic Energy	1.Kinetic Energy in Rolling	1. Rolling	1. Moment of inertia	1.Pure Rolling	1.Moment of Inertia, perpendicular axis theroem
GRAVITATION	Nariation in accelaration due to gravity with respect to height	Kepler's law of Planatory Motion Variation in accelaration due to	Variation in acceleration due to gravity w.r.t height and depth SHM in tunnel inside Earth	1.Gravitational Potential Energy 2. Kepler's Law of Planatory Motion	Circular Motion under mutual gravitation interaction	1.Kepler's Law	Relation b/w gravitational field and potential	1.Gravitation Energy Conservation	Variation in acceleration due to gravity w.r.t height and depth	1.Variation of accelaratulon due to gravity with height	Variation of Gravity with Respect to Depth and Height Rocket Problem / Escape velocity	1.Escape velocity of accelaration due to gravity
PROPERTIES OF SOLIDS AND LIQUIDS	1.Young's Modulus of elasticity	Elasticity Viscocity and Stokes Law	1.Young's Modulus of Elasticity	1.Surface Energy	1.Surface Tension / Energy	Bernaulli's Principal Viscocity	1.Poissions Ratio 2. Capilary Action	1.Modulus of Elasticity	1. Surface energy	1. Yong's Modulus 2. Young's Modulus	Surface tension / Surface Energy Bulk moduluds / Compressibility	Young's Modulus Velocity of Efflux
THERMODYNAMICS	Calorimetry and Thermodynamics Thermal Expansion	1.Isothermal Process	1.Carnot Engine 2. Newton's Law of Cooling		First law of Thermodynamics definition Newton's Law of cooling	1.Calorimetry	1.Thermal Expansion of Gases 2.Isothermal Process	1.Carnot Engine 2. Temperature Scale	1. First law of thermodynamics 2. Thermal stress	1. First law of theermodynamics 2. Caleromitry	1.Adiabatic process	1.Carnot Engine
CINETIC THEORY OF GASES	1.RMS speed	Specific Heat Ratio	1.RMS Velocity	1.Law of Equipartition Energy	Variation of Pressure versus temperature in a gas	1.RMS and Average Speed		1.Average Kinetic Energy	1. Adiabatic constant	1.Specific heat	1.Equipartition Energy	Variation of pressure versus temperature
OSCILLATIONS AND NAVES	1. Travelling Wave, Wave Velocity 2. Time period of Spring Block System	Time period of Spring Block System	1.Travelling Wave ,Wave Velocity	1.Displacement-Time Relation in SHM 2. Doppler's Effect	Sound wave / Doppler's Effect Superposition of SHM	1.S.H.M	1.Energy in S.H.M	1.Angular Frequency of Spring Block System 2. Relation b/w position and velocity in S.H.M	1.Energy in SHM 2. Spring Block System	1. Superposition of Waves	Wave velocity of transverse wave in string under tension Energy in S.H.M.	1. Time period of Simple Pendulum 2. Energy in S.H.M.
ELECTROSTATICS	1. Coulomb's Law 2. Electrostatic, Force on Charge in Electric Field	Electrostatic Potential Effect of Dielectric in Capacitor	Capacitor Service on charge in electric field due to capacitor	1.Equillibrium,null point where net E.F is zero	Electric flux / Gauss' Law Equilibrium of Charges aoulomb's law	Work done by Electric Field Relatiuon between electric field and Potential		1.Electric Field due to spherical Shell 2.Gauss Law and Flux	1.Potential due to charged spherical shell 2. Defination of flux	1.Electricfield & Potentia 2. Combination of capacitor		Capacitance of conducting sphere Electri field and Gauss law
CURRENT ELECTRICITY	Circuit Analysis Resistance of Conductor	Variation in resistance due to Streching of wire Growth of current in L-R d.c. circuit		1.Variation of Resistance on Stretching Wire	1.Power Dissipated through resistance		1.Definition of Current 2. Circuit Analysis	1.Equivalent Resistance 2.Equivalent Resistance		Heating effect of current 2.Circuit analysis	s 1.Equivallent Resistance	Equivallent Resistance Circuit Problem
MAGNETIC EFFECTS OF CURRENT AND MAGNETISM	Force between parallel wires Magnetic Field due to current carrying loop	1.Force on Current carrying loop in magnetic field	1.Magnetic Field due to current carrying conductor 2.Magnetic intensity inside solenoid	1.Magnetic Field due to current carrying wire	Magnetic field due to currect carrying loop Magnetic field due to current carrying wire	Magnetic field due to current carrying loop Work done by magnetic field on Dipole	1.Magnetic Moment 2. Force on Current Carrying Wire	1.Magnetic Field due to current carrying wire 2. Force on Current Carrying Wire		Magnetic field due to cicular loop	Magnetic Field due to current carrying wire Circular motion of charge in magnetic field	1.Magnetic Feild due to current carrying wire
EMI & AC	Faraday's law of eletromagnetic Induction Quality factor in A.C. circuit	1. Magnetic field due to Solenoid 2. EMF induced in rotating rod	1.Resonance in A.C Circuit 2. Resonance in A.C Circuit	1.Motional E.M.F 2.Power Factor	1. Mutual Induction	1. A. C. RMS current and resonance 2. Resonance in A. C. Current	1.Power Factor 2.e.m.f	1.R.M.S Current in A.C	1. lenz law 2. Series LCR Circuit	1. Inductive reactance 2. RLC AC Circuit		
EM WAVES	1.Realation Between 'E' and 'B'	1.Relation between E0 and B0 in EM waves	1.Direction of propogation of E.M Wave 1.Young's Double Slit	1.Maxwells Equation	1.Propagation and Intensity of E.M. waves	Properties of E.M. waves 1. Optical instrument,	1.Radiation Force , Momentum 2.Radiation Force	1.Intensity of E.M Wave	Electromagnetic spectrum Relation b/w Refractive indedx , relative permeability, relative permittivity	1.Usage of EM Waves	1.Production of Diffrent E.M Waves	1.Energy Density
OPTICS	Polarization, Brewster's law Combination of Lens.	Aberration in lens Lens maker's formula	Experiment 2.Lateral Dispacement	1.Reflection through plane mirror 2.Lens Mirror Combination	Young's double slit experiment Polarization	Microscope 2. Polarization, Brewster's law	1.Young's Double Slit Experiment	1.Dispersion 2.Young's Double Slit Experiment	1. Polarazation	Microscope 2. Young's double slit experiments		1.Curved Mirror
DUAL NATURE OF MATTER AND RADIATION	1.Photoelectri Effect	1.De-Broglie Wavelength in matter wave	1.Matter Wave ,Debroglie Wavelength	1.Photo Electric Effect	1.Photoelectric Effect	1.Matter wave, DeBroglie wavelength		1.De-Broglie Wavelength of Electron 2. RadioActivity, Half Life	1.Wave nature of electron davisson germer experiment	1. Photoelectric effect	1.De-Broglie Wavelength	1.Einsteins Equation
ATOMS AND	Radioactivity alpha, beta and gamma decay Nuclear Density	Hydrogen Spectrum Energy Released in fission	1.Density of Nuclei 2. Transition of Electron in Bohr's Orbit	1.Transition of Electron in Bohr's Orbit 2.Density and Momentum Conservation of Nuclei	Radioactivity / Halflife Alpha, Beta and Gamma decay	1.Radioactivity, halflife	1.Speed of and Electron in Bohr's Orbit	1.Nuclear Density	Qvalue of nucliar reaction Transistion of electron in different energy level	1.Radius of bohr's orbit 2. Binding energy of H- like ion	1.Binding Energy of Nucleus 2.Bohr's Model	1.Transition of Electron in H-Like lor 2.Binding Energy per Nucleon

Electronic Devices	1.Photodiode	1.Logic Gate		1.P-Type,N-Type Semiconductor 2.Effect of Di-Electric	1.Light Emitting Diode	1.Logic Gate	1.Logic Gate	1.Logic Gate	Energy band in semi conductor		1.Classification on the basis of Band Theory	1.Zener Diode
Communication								1.Element's of			1.Broadcasting frequency	
Systems	1.Modulation	Spectrum	Width	Atmosphere	1.Range of antennas	1.A.M. wave modulation	1.Amplitude Modulation	Communication	1.Amplitude modulation	1. Amplitude modulation	Spectrum	Modulation
						1. Potentiometer						
						2. Meterbridge						
				1.Moving coil		3. Vernier Calliperse		1.Spectacles 2.Screw		1. Sensitivity of		
Experimental Skills		1.Voltmeter		galvanometer	1.Meterbridge	4. Potentiometer		Gauge		galavanometer	1.Potentiometer	1.Volt Meter