

Grem(1974) Coaching Academy
public questions - 2023 (9566424680)
+1 - physics

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All the best"

chapter - 1

Advantages of SI system, Triangulation method and problem, one second, one ampere, parallax method, Radar method, Accuracy, Precision, Systematic errors - types, Cross error, Eg - 1.10, 1.11, principle of Homogeneity of dimensions, Application and limitations, Eg - 1.14, 1.15, 1.13 Book back - pg No. 39 - IV - P.3, Frame of reference

(*) SI unit of physical quantities Table - 1.3

chapter - 2

Scalar, vector, Different types, Triangular law of addition, Distance & displacement, Impulse, Average Velocity, Eg - 2.20, Parallel diagram law of vectors (SM), Momentum, Average acceleration, Instantaneous Acceleration, Equations of motions, projectile, Horizontal proj., Angular displacement, Tangential acceleration, Centripetal acceleration Eg - 2.41, pg 102-16/9, 22

chapter - 3

Newton's I law, II law, III law - discussion, concurrent forces & Taxis theorem, law of conservation momentum, Recoil of gun, Impulse - Illustration, 1, 2, 3, 4, static vs kinetic friction, centripetal force, Vehicle - levelled surface roads, Banking of tracks, Centrifugal - centripetal comparison pg - 165 - 14, 15

chapter - 4

Work done - cases, Potential energy, Work-energy theorem, Momentum - Elastic potential energy, Law of conservation of energy, Motion of L.E in verticle circle, Power, 1 kWt, Eg - 4.18, Relation power & Velocity, Types of collision, Elastic collision in 1D, coefficient of restitution. Pg. 205 - 1, 5 (SM) - derivation.

chapter - 5

Centre of mass - distributed point mass, G - 5.2, 5.8, Precession of top, Torque & applications, $\tau = I \alpha / m$, $\tau = I \ddot{\alpha}$, conservation of angular momentum, couple, principle of Centre of gravity, Bending of cyclist, Moment of Inertia of uniform parallel axis theorem, Cons. of angular momentum, example, Slipping & Sliding - pg 263 - 1, 5

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Chapter-6

Inverse square law, Gravitational field, Potential, Variation of g with altitude, depth, Escape speed, Time period, Geostationary, Helio centric System, ^(SM) Lunar Eclipse,

Chapter-7

Shearing stress, Hooke's law, Types of materials, (Elastic), Poisson ratio, Pascal's law, Buoyancy, Archimedes principle, submarine, Coefficient of viscosity, Streamline flow & turbulent flow, Reynolds number, Terminal velocity - expression, Stokes law, Surface tension - examples - ^(SM), Angle of contact, capillarity, Surface tension by capillary rise, Bernoulli theorem & applications Equations of continuity - problem - T, 5

Chapter-8

Boyle's, Charles law, Heat capacity & specific capacity Newton's law of cooling, Wien's displacement law, Thermal equilibrium, State Variables, Zeroth law, first law - quasi static, PV diagram - expansion, Meyer's relation, ^(SM) Work done in isothermal process & adiabatic, Cyclic process - 1 law - limitations, Pg - 8.24, cannot cycle - working g - 8.12 - .

Chapter-9

Postulates of kinetic theory & Relation between pressure and mean k.E., rms speed, Moon has no atmosphere, Comparison, Degrees of freedom - full topic, triatomic molecules, Law of equipartition of energy, Application, Mean free path, Brownian motion.

Chapter-10

SHM, Proj. of uniform circular motion on a diameter of SHM, Velocity, Acceleration in SHM, (2nd) Epoch in SHM, Laws of Simple pendulum, Pg - 220 - 2, 6, 9, Problems - 4 - (ii)

Chapter-11

Doppler effect, applications, Characteristics of wave motion, Terms & def. in wave motion, Velocity of transverse waves in a stretched string, Newton's for. for speed of sound waves in air, Laplace's correction, Super position principle, Interference of waves, formation of beats, Laws of transverse vibrations in stretched strings, Intensity & Loudness of sound, overtones in organ pipes - closed.

"All the best" -(9566424680)