

SECTION - I **PB-GL-22**

2. Write short answers to any EIGHT parts.

16

- (i) Write the dimensions of (a) pressure (b) density.
- (ii) Why do we find it useful to have two units for the amount of substance, the kilogram and the mole?
- (iii) Differentiate between random error and systematic error.
- (iv) What are the uses of dimensions?
- (v) Motion with constant velocity is a special case of motion with constant acceleration. Is this statement true? Discuss.
- (vi) At what point or points in its path does a projectile have its minimum speed, its maximum speed?
- (vii) A projectile is thrown from ground with velocity of 10m/sec at an angle of 30° with horizontal. Find the time taken to reach maximum height.
- (viii) Why do you keep your legs far apart when you have to stand in the aisle of a bumpy riding bus?
- (ix) Why does the pressure of a gas in a car tyre increase when it is driven through some distance?
- (x) Is it possible to convert internal energy into mechanical energy? Explain with an example.
- (xi) A heat engine takes heat of 100J from source and rejects 20J heat to the sink. Find the percentage efficiency of heat engine.
- (xii) Starting from the relation for pressure of the gas prove that $T \propto \frac{2}{3k} < \frac{1}{2} mv^2 >$

3. Write short answers to any EIGHT parts.

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- (i) Explain the multiplication of a vector by a scalar
- (ii) Two vectors have unequal magnitudes. Can their sum be zero? Explain.
- (iii) The vector sum of three vectors gives a zero resultant. What can be the orientation of the vectors?
- (iv) Define conservative field and give two examples.
- (v) An object has 1J of potential energy. Explain what does it mean?
- (vi) When rocket re-enters the atmosphere, its nose cone becomes very hot. Where does this heat energy come from?
- (vii) Why the objects in satellites appear to be weightless?
- (viii) What is meant by moment of inertia? Explain its significance
- (ix) Show that the orbital angular momentum $L_o = mvr$
- (x) How would you manage to get more order of spectra using a diffraction grating?
- (xi) Why the polaroid sunglasses are better than ordinary sunglasses?
- (xii) Explain the optical rotation of light.

4. Write short answers to any SIX parts.

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- (i) Explain, how swing is produced in a fast moving cricket ball?
- (ii) What is meant by the phase angle? Does it define angle between ~~restoring displacement~~ and driving force?
- (iii) Differentiate between forced and free oscillations?
- (iv) What is the total distance travelled by an object moving with SHM in a time equal to its period, if its amplitude is A?
- (v) How can we find out unknown frequency of a tuning fork by beats?
- (vi) How can the speed of a car can be found by Doppler's effect?
- (vii) Explain why sound travels faster in warm air than in cold air?
- (viii) Explain in brief the single mode step index fiber.
- (ix) Differentiate between angular magnification and resolving power of an optical instrument

SECTION - II Attempt any THREE questions. Each question carries 08 marks.

5. (a) Define conservative field and show that earth's gravitational field is conservative. 05
 (b) Show that three vectors $\hat{i} + \hat{j} + \hat{k}$, $2\hat{i} - 3\hat{j} + \hat{k}$ and $4\hat{i} + \hat{j} - 5\hat{k}$ are mutually perpendicular. 03
6. (a) Derive relations for rotational kinetic energy of a disc and a hoop. Calculate their velocities at the bottom of an incline of height h when both starts moving down at the same time. 05
 (b) A truck weighing 2500kg and moving with a velocity of 21ms^{-1} collides with stationary car weighing 1000kg. The truck and the car move together after the impact. Calculate their common velocity. 03

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