

SECTION - I

- Q. 1.** Derive an expression for the period of motion of a simple pendulum.
On which factors does it depend?

A ballet dancer spins about a vertical axis at 2.5π rad/s with his both arms outstretched. With the arms folded, the moment of inertia about the same axis of rotation changes by 25%. Calculate the new speed of rotation in r. p. m.

[7]

OR

- Q. 1.** Draw neat labelled diagrams for modes of vibration of an air column in a pipe when it is (a) open at both ends, (b) closed at one end.
Hence derive an expression for fundamental frequency in each case. A soap bubble of radius 12 cm is blown. Surface tension of soap solution is 30 dyne/cm. Calculate the work done in blowing the soap bubble.

[7]

- Q. 2. Attempt any THREE :**

[9]

- (i) In a conical pendulum, a string of length 120 cm is fixed at rigid support and carries a mass of 150 g at its free end. If the mass is revolved in a horizontal circle of radius 0.2 m around a vertical axis, calculate tension in the string. ($g = 9.8 \text{ m/s}^2$)
- (ii) Explain the behaviour of metal wire under increasing load.
- (iii) Derive an expression for one dimensional simple harmonic progressive wave travelling in the direction of positive X-axis. Express it in 'two' different forms.
- (iv) The kinetic energy of nitrogen per unit mass at 300K is $2.5 \times 10^6 \text{ J/Kg}$. Find the kinetic energy of 4 Kg oxygen at 600 K.
(Molecular weight of nitrogen = 28, Molecular weight of oxygen = 32)

- Q. 3. Attempt any SIX :**

[12]

- (i) A racing car completes 5 rounds of a circular track in 2 minutes. Find the radius of the track if the car has uniform centripetal acceleration of $\pi^2 \text{ m/s}^2$.
- (ii) A body weighs 4.0 Kgw on the surface of the Earth. What will be its weight on the surface of a planet whose mass is $\frac{1}{8}$ th of the mass of the Earth and radius half $\left(\frac{1}{2}\right)$ of that of the Earth?
- (iii) Define radius of gyration. Explain its physical significance.
- (iv) A body of mass 1 Kg is made to oscillate on a spring of force constant 16 N/m. Calculate : (a) Angular frequency, (b) Frequency of vibration
- (v) Show that the surface tension of a liquid is numerically equal to the surface energy per unit area.
- (vi) Explain black body radiation spectrum in terms of wavelength.

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