

- (iv) Wavelengths of two notes in the air are $\left(\frac{70}{153}\right)^m$ and $\left(\frac{70}{157}\right)^m$. Each of these

notes produces 8 beats per second with a tuning fork of fixed frequency.

Find the velocity of sound in the air and frequency of the tuning fork.

Q. 2. Attempt any SIX :

[12]

- Draw a diagram showing different stages of projection for artificial satellite.
- State the law of conservation of angular momentum and explain with a suitable example.
- Define the angle of contact and state its any 'two' characteristics.
- With a neat and labelled diagram, explain Ferry's perfectly black body.
- A stone of mass 5 kg, tied to one end of a rope of length 0.8 m, is whirled in a vertical circle. Find the minimum velocity at the highest point and at the midway point. [$g = 9.8 \text{ m/s}^2$]
- The maximum velocity of a particle performing linear S.H.M. is 0.16 m/s. If its maximum acceleration is 0.64 m/s^2 , calculate its period.
- Water rises to a height 3.2 cm in a glass capillary tube. Find the height to which the same water will rise in another glass capillary having half area of cross section.
- A 36 cm long sonometer wire vibrates with frequency of 280 Hz in fundamental mode, when it is under tension of 24.5 N. Calculate linear density of the material of wire.

Q. 3. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- A thin wire of length L and uniform linear mass density ρ is bent into a circular coil. M. I. of the coil about tangential axis in its plane is _____
 (a) $\frac{3\rho L^2}{8\pi^2}$ (b) $\frac{8\pi^2}{3\rho L^2}$ (c) $\frac{3\rho L^3}{8\pi^2}$ (d) $\frac{8\pi^2}{3\rho L^3}$
- The average displacement over a period of S.H.M. is _____
 (A = amplitude of S.H.M.)
 (a) 0 (b) A (c) 2A (d) 4A
- In which of the following substances, surface tension increases with increase in temperature ?
 (a) Copper (b) Molten copper (c) Iron (d) Molten iron
- The ratio of diameters of two wires of the same material and length is $n : 1$. If the same load is applied to both the wires then increase in the length of the thin wire is _____ ($n > 1$).
 (a) n^4 times (b) n^2 times (c) n times (d) n^2 times
- The co-efficient of reflection of an opaque body is 0.16. Its co-efficient of emission is _____.
 (a) 0.94 (b) 0.84 (c) 0.74 (d) 0.64
- Let velocity of a sound wave be ' v ' and ' ω ' be angular velocity. The propagation constant of the wave is _____.
 (a) $\sqrt{\frac{\omega}{v}}$ (b) $\sqrt{\frac{v}{\omega}}$ (c) $\frac{\omega}{v}$ (d) $\frac{v}{\omega}$

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