

- (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  $0.64 \text{ m/s}^2$ , 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  $\rho$  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 ' $\omega$ ' 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)  $\frac{v}{\omega}$

# Hsc Physics Question Paper 2014

**Brian Shadwick**



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