

Time : 2 Hrs.

Max. Marks : 40

- Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :** [8]
- (i) The S. I. unit of emissive power is ..... (1)  
 (a) Watt / m<sup>2</sup> (b) Watt. m<sup>2</sup> (c) Watt / m<sup>2</sup> K (d) Watt. m<sup>2</sup> / K
- (ii) For two vibrating bodies to be in resonance, which of the following quantity should be equal ? (1)  
 (a) Wavelength (b) Frequency (c) Amplitude (d) Wave-velocity
- (iii) One beat means that the intensity of sound should be ..... (1)  
 (a) once maximum (b) once minimum  
 (c) once maximum and once minimum (d) twice maximum and twice minimum
- (iv) The radius of gyration of a solid sphere of mass 'M' and radius 'R' rotating about an axis coinciding with its diameter is ..... (1)  
 (a)  $\sqrt{\frac{1}{5}} \cdot R$  (b)  $\sqrt{\frac{2}{5}} \cdot R$  (c)  $\sqrt{\frac{3}{5}} \cdot R$  (d)  $\sqrt{\frac{2}{5}} \cdot R$
- (v) The weight of body is maximum ..... (1)  
 (a) at poles of the earth (b) at equator of the earth  
 (c) below the surface of the earth (d) above the surface of the earth
- (vi) A stone is tied to a string and rotated in horizontal circle with constant angular velocity. If the string is released, the stone flies ..... (1)  
 (a) radially inward (b) radially outward  
 (c) tangentially forward (d) tangentially backward
- (vii) The maximum velocity of a particle performing linear S.H.M. is 0.32 m/s and its maximum acceleration is 2.56 m/s<sup>2</sup>, the amplitude of S.H.M. is ..... (1)  
 (a) 0.02 m (b) 0.03 m (c) 0.04 m (d) 0.05 m
- (viii) A force of 100 N produces a change of 0.1% in a length of a wire of area of cross-section 1.0 m<sup>2</sup>. Young's modulus of the wire is ..... (1)  
 (a) 10<sup>5</sup> N/m<sup>2</sup> (b) 10<sup>8</sup> N/m<sup>2</sup> (c) 10<sup>11</sup> N/m<sup>2</sup> (d) 10<sup>12</sup> N/m<sup>2</sup>
- Q. 2 (A) Attempt any ONE :** [8]
- (i) A metal sphere cools at the rate of 4° C per minute at the temperature of 60° C. Calculate the rate of cooling at 40° C if temperature of surroundings is 30° C. (2)
- (ii) A torque of magnitude 1000 Nm acting on a body, produces an angular acceleration of 2rad/s<sup>2</sup>. Calculate the moment of inertia of the body. (2)
- (B) Attempt any TWO :**
- (i) Draw neat diagrams of the parallel and perpendicular positions of the tuning fork in Melde's experiment for the same length and same tension with the formation of the loops and write the formula for the frequency of the vibrating tuning fork in each position. (3)
- (ii) Derive the expression for the strain energy. Hence show that strain energy per unit volume is directly proportional to square of the stress. (3)
- (iii) Obtain an expression for maximum speed with which a vehicle can be driven safely on a banked road. Show that the safety speed limit is independent of the mass of the vehicle. (3)
- Q. 3 (A) Attempt any ONE :** [8]
- (i) Define angular S.H.M. State its differential equation. (2)
- (ii) State 'any four' assumptions of Kinetic theory of gases. (2)
- (B) Attempt any TWO :**
- (i) State and prove the principle of perpendicular axes. (3)

# 2010 Hsc Exam Papers

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**2010 Hsc Exam Papers:**

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