

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) For the practice performing linear S.H.M. from general position, the state of oscillation of a particle giving its position and direction of motion at a time equal to zero ($t = 0$) is called .. (1)
 (a) phase of S.H.M. (b) final phase of S.H.M.
 (c) angular speed of S.H.M. (d) epoch of S.H.M.
- (ii) The strain energy per unit volume of the wire under increasing load is (1)
 (a) $\frac{1}{2} \times (\text{stress})^2 \times \text{strain}$ (b) $\frac{1}{2} \times \text{stress} \times (\text{strain})^2$
 (c) $0.5 \times \text{stress} \times \text{strain}$ (d) $0.5 \times (\text{strain})^2 \times \frac{1}{V}$
- (iii) When the common salt is dissolved in pure water, the surface tension of a solution is that of pure water. (1)
 (a) less than (b) equal to (c) greater than (d) half.
- (iv) The R.M.S. speed of a gas molecule is directly proportional to (1)
 (a) its absolute temperature (b) the square root of its absolute temperature
 (c) the square of its absolute temperature (d) the fourth power of its absolute temperature
- (v) The coefficient of absorption of the body equal to its coefficient of emission at a given temperature is called (1)
 (a) Stefan's law (b) Newton's law (c) Kirchhoff's Law (d) Boyle's law.
- (vi) The equation of a simple harmonic progressive wave travelling along negative direction of x - axis is (1)
 (a) $y = a \sin 2\pi \left(\frac{t}{T} - \frac{x}{\lambda} \right)$ (b) $y = a \sin \frac{2\pi}{\lambda} (vt - x)$
 (c) $y = a \sin \pi \left(nt + \frac{x}{\lambda} \right)$ (d) $y = a \sin 2\pi \left(\frac{t}{T} + \frac{x}{\lambda} \right)$
- (vii) Angular speed of a minute hand of a wrist watch in rad/s is (1)
 (a) $\frac{\pi}{60}$ (b) $\frac{\pi}{900}$ (c) $\frac{\pi}{1800}$ (d) $\frac{\pi}{3600}$
- (viii) Acceleration due to gravity above the earth's surface at a height equal to the radius of the earth is [Given : $g = 10 \text{ m/s}^2$] (1)
 (a) 2.5 m/s^2 (b) 5 m/s^2 (c) 9.8 m/s^2 (d) 10 m/s^2

Q. 2 (A) Attempt any ONE : [8]

- (i) A stone of mass one kilogram is tied to the one end of a string of length 5 metre and whirled in a whirled in a vertical circle. What will be the minimum speed required at the lowest position to complete the circle ? (Given : $g = 9.8 \text{ m/s}^2$) (2)
- (ii) Moment of inertia of a disc about an axis passing through its centre and perpendicular to its plane is $10 \text{ kg} - \text{m}^2$. Find its M. I. about the diameter. (2)

(B) Attempt any TWO :

- (i) Draw a neat labelled diagram for the fundamental mode of vibrations of air column in a pipe.
 (a) open at both the ends.
 (b) open at one end.
 Write formula for the corresponding fundamental frequency in each case. (3)
- (ii) State any six assumptions of kinetic theory of gases. (3)
- (iii) Derive an expression for the maximum safe speed of the vehicle moving along a banked road. (3)

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