

- (vii) 'g' is the acceleration due to gravity on the surface of the Earth and 'R' is the radius of the Earth. Show that acceleration due to gravity at height 'h' above the surface of the Earth is  $g_h = g \left( \frac{R}{R+h} \right)^2$ .

- (viii) In Melde's experiment, the number of loops on a string changes from 7 to 5 by the addition of 0.015 Kgw. Find the initial tension applied to the string.

**Q. 4. Select and write the most appropriate answer from the given alternatives for each sub-question :**

[7]

- (i) A planet is revolving around a star in a circular orbit of radius R with a period T. If the gravitational force between the planet and the star is proportional to  $R^{-\frac{3}{2}}$ , then \_\_\_\_\_.
- (a)  $T^2 \propto R^{\frac{5}{2}}$  (b)  $T^2 \propto R^{-\frac{7}{2}}$  (c)  $T^2 \propto R^{\frac{3}{2}}$  (d)  $T^2 \propto R^4$
- (ii) If 'L' is the angular momentum and 'I' is the moment of inertia of a rotating body, then  $\frac{L^2}{2I}$  represents its \_\_\_\_\_.
- (a) rotational P. E. (b) total energy (c) rotational K. E. (d) translational K.E.
- (iii) A particle executing linear S.H.M. has velocities  $v_1$  and  $v_2$  at distances  $x_1$  and  $x_2$  respectively from the mean position. The angular velocity of the particle is \_\_\_\_\_.
- (a)  $\sqrt{\frac{x_1^2 - x_2^2}{v_2^2 - v_1^2}}$  (b)  $\sqrt{\frac{v_2^2 - v_1^2}{x_1^2 - x_2^2}}$  (c)  $\sqrt{\frac{x_1^2 + x_2^2}{v_2^2 + v_1^2}}$  (d)  $\sqrt{\frac{v_2^2 + v_1^2}{x_1^2 + x_2^2}}$
- (iv) A metal rod having coefficient of linear expansion ( $\alpha$ ) and Young's modulus (Y) is heated to raise the temperature by  $\Delta\theta$ . The stress exerted by the rod is \_\_\_\_\_.
- (a)  $\frac{Y\alpha}{\Delta\theta}$  (b)  $\frac{Y\Delta\theta}{\alpha}$  (c)  $Y\alpha\Delta\theta$  (d)  $\frac{\alpha\Delta\theta}{Y}$
- (v) A big drop of radius R is formed from 1000 droplets of water. The radius of a droplet will be \_\_\_\_\_.
- (a) 10 R (b)  $\frac{R}{10}$  (c)  $\frac{R}{100}$  (d)  $\frac{R}{1000}$
- (vi) Apparent frequency of the sound heard by a listener is less than the actual frequency of sound emitted by source. In this case \_\_\_\_\_.
- (a) listener moves towards source.  
(b) source moves towards listener.  
(c) listener moves away from the source.  
(d) source and listener move towards each other.
- (vii) The substance which allows heat radiations to pass through is \_\_\_\_\_.
- (a) iron (b) water vapour (c) wood (d) dry air

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