

PHYSICS

Time : 3 hrs.]

MARCH - 2015

[Marks : 70

- Note :**
- (i) All questions are compulsory.
 - (ii) Neat diagrams must be drawn wherever necessary.
 - (iii) Figures to the right indicate full marks.
 - (iv) Use of only logarithmic table is allowed.
 - (v) All symbols have their usual meaning unless otherwise stated.
 - (vi) Answer to every question must be written on a new page.
 - (vii) Answers to both the sections must be written in the same answer book.

SECTION - I

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) The period of a conical pendulum in terms of its length (l), semivertical angle (θ) and acceleration due to gravity (g) is :
(a) $\frac{1}{2\pi} \sqrt{\frac{l \cos \theta}{g}}$ (b) $\frac{1}{2\pi} \sqrt{\frac{l \sin \theta}{g}}$ (c) $4\pi \sqrt{\frac{l \cos \theta}{g}}$ (d) $4\pi \sqrt{\frac{l \tan \theta}{g}}$
- (ii) The kinetic energy of a rotating body depends upon _____.
(a) distribution of mass only. (b) angular speed only.
(c) distribution of mass and angular speed. (d) angular acceleration only.
- (iii) If the metal bob of a simple pendulum is replaced by a wooden bob of the same size, then its time period will _____.
(a) increase (b) remain same
(c) decrease (d) first increase and then decrease.
- (iv) The graph between applied force and change in the length of wire within elastic limit is a _____.
(a) straight line with positive slope. (b) straight line with negative slope.
(c) curve with positive slope (d) curve with negative slope.
- (v) When longitudinal wave is incident at the boundary of denser medium, then _____.
(a) compression reflects as a compression.
(b) compression reflects as a rarefaction.
(c) rarefaction reflects as a compression
(d) longitudinal wave reflects as transverse wave.
- (vi) The dimensions of universal gravitational constant are _____.
(a) $[L^1 M^0 T^0]$ (b) $[L^2 M^1 T^0]$
(c) $[L^{-1} M^1 T^{-2}]$ (d) $[L^3 M^{-1} T^{-2}]$
- (vii) Two copper spheres of radii 6 cm and 12 cm respectively are suspended in an evacuated enclosure. Each of them are at a temperature 15°C above the surroundings. The ratio of their rate of loss of heat is _____.
(a) 2 : 1 (b) 1 : 4 (c) 1 : 8 (d) 8 : 1

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