

- 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 ( $\theta$ ) 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  $15^\circ\text{C}$  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

# March 2014 Hsc Physics Question Paper

**Neville G. Warren**



**March 2014 Hsc Physics Question Paper:**

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