

**Note:**

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1.1** The surfaces of Leslie's cube are:
- (A) 5 (B) 2  
(C) 3 (D) 4
- 2** The value of "g" at a height one earth's radius above the surface of the earth is:
- (A)  $2g$  (B)  $\frac{1}{2}g$   
(C)  $\frac{1}{3}g$  (D)  $\frac{1}{4}g$
- 3** The efficiency of an electric lamp is \_\_\_\_\_ percent.
- (A) 20 (B) 15  
(C) 10 (D) 5
- 4** The least count of meter rod is:
- (A) 1mm (B) 0.01m  
(C) 0.01cm (D) 0.01mm
- 5** The major source of heat energy is:
- (A) Sun (B) Moon  
(C) Earth (D) Light
- 6** Co-efficient of friction is equal to:
- (A)  $F_s R$  (B)  $\frac{R}{F_s}$   
(C)  $F_s + R$  (D)  $\frac{F_s}{R}$
- 7** \_\_\_\_\_ has the largest value of co-efficient of linear thermal expansion.
- (A) Aluminium (B) Gold  
(C) Brass (D) Steel
- 8** \_\_\_\_\_ vectors can be added by head to tail rule.
- (A) Any number of (B) 4  
(C) 3 (D) 2
- 9** The weight of a body is 147N, its mass will be (if  $g = 10\text{ms}^{-2}$ )
- (A) 1.47 kg (B) 14.7 kg  
(C) 0.147 kg (D) 147 kg
- 10** Prefix femto is equal to:
- (A)  $10^{-9}$  (B)  $10^{-12}$   
(C)  $10^{-15}$  (D)  $10^{-18}$
- 11** The work done will be zero when the angle between the force and the displacement is:
- (A)  $45^\circ$  (B)  $60^\circ$   
(C)  $90^\circ$  (D)  $180^\circ$
- 12** \_\_\_\_\_ (metal) is the lightest:
- (A) Copper (B) Aluminium  
(C) Mercury (D) Lead