

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 Inertia depends upon:

- (A) Force (B) Net force
(C) Mass (D) Velocity

2 The specific heat of glass is:

- (A) $840 \text{ Jkg}^{-1} \text{ K}^{-1}$ (B) $645 \text{ Jkg}^{-1} \text{ K}^{-1}$
(C) $850 \text{ Jkg}^{-1} \text{ K}^{-1}$ (D) $900 \text{ Jkg}^{-1} \text{ K}^{-1}$

3 The value of 'g' on the surface of sun is:

- (A) 8.87 ms^{-2} (B) 25.94 ms^{-2}
(C) 274.2 ms^{-2} (D) 9.8 ms^{-2}

4 Amount of a substance is measured in

- (A) Gram (B) Kilogram
(C) Newton (D) Mole

5 Rate of doing work is called:

- (A) Energy (B) Torque
(C) Power (D) Momentum

6 Rate of flow of heat is:

- (A) $Q \times t$ (B) $Q^2 \times t$
(C) $\frac{Q^2}{t}$ (D) $\frac{Q}{t}$

7 Which of the following is a vector quantity:

- (A) Speed (B) Distance
(C) Displacement (D) Power

8 The unit of torque is:

- (A) N (B) Nm
(C) J (D) Nm^2

9 Moon completes in one revolution around the earth in:

- (A) 25.3 days (B) 29.3 days
(C) 31.3 days (D) 27.3 days

10 In gases heat is mainly transferred by

- (A) Molecular collision (B) Conduction

- (C) Convection (D) Radiation

11 Least count of digital vernier callipers is:

- (A) 0.01 mm (B) 0.001 mm
(C) 0.1 mm (D) 1 mm

12 In SI unit of stress is:

- (A) Nm^{-1} (B) Nm^{-2}
(C) Ns (D) Nm