

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 range of clinical thermometer is
 (A) $25^{\circ}\text{C} - 42^{\circ}\text{C}$ (B) $30^{\circ}\text{C} - 42^{\circ}\text{C}$
 (C) $35^{\circ}\text{C} - 42^{\circ}\text{C}$ (D) $20^{\circ}\text{C} - 42^{\circ}\text{C}$
- 2 The energy stored in coal is
 (A) chemical energy (B) kinetic energy
 (C) heat energy (D) nuclear energy
- 3 A ball is thrown vertically upward. the highest point will be
 (A) 10ms^{-1}
 (B) 10ms^{-2}
 (C) zero
 (D) -10ms^{-1}
- 4 The value of 'B' for a solid for which 'a' has a value of $2 \times 10^5 \text{K}^{-1}$ will be
 (A) $8 \times 10^{-5} \text{K}^{-1}$ (B) $6 \times 10^{-5} \text{K}^{-1}$
 (C) $8 \times 10^{-15} \text{K}^{-1}$ (D) $2 \times 10^{-5} \text{K}^{-1}$
- 5 Using gas heaters, rooms are heated by
 (A) convection and radiation (B) conduction
 (C) convection (D) radiation
- 6 ----- of the following is the smallest quantity.
 (A) 5000ng (B) 2mg
 (C) $100\mu\text{g}$ (D) 0.01g
- 7 Two equal but unlike parallel forces having different line of action produce
 (A) torque (B) a couple
 (C) equilibrium (D) neutral equilibrium
- 8 A boy jumps out of a moving bus. There is a danger for him to fall
 (A) away from the bus
 (B) opposite to the direction of motion
 (C) towards the moving bus
 (D) in the direction of motion
- 9 The efficiency of solar cell is
 (A) 12% (B) 3%
 (C) 9% (D) 6%
- 10 Meiosis was discovered in 1876 by _____
 (A) Oscar Hertwig (B) Thomas Hunt
 (C) Hunt Morgan (D) Walther Flemming
- 11 The density of substance can be found with the help of
 (A) Hooke's Law
 (B) principle of floatation
 (C) Archimedes Principle
 (D) Pascal's Law
- 12 The altitude of geostationary orbits in which communication satellites are launched above the surface of the Earth is
 (A) 1000Km (B) 850Km
 (C) 6400Km (D) $42,300\text{Km}$