

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** SI unit of pressure is Pascal which is equal to :
 (A) $1 \times 10^1 \text{ Nm}^{-2}$ (B) $1 \times 10^2 \text{ Nm}^{-2}$
 (C) $1 \times 10^0 \text{ Nm}^{-2}$ (D) $1 \times 10^3 \text{ Nm}^{-2}$
- 2** Global positioning system (GPS) consists of earth satellites:
 (A) 23 (B) 24
 (C) 25 (D) 26
- 3** Which of the following materials has large value of temperature co-efficient of linear expansion :
 (A) Steel (B) Brass
 (C) Gold (D) Aluminium
- 4** A student claimed the diameter of a wire as 1.032 cm using Vernier Callipers. Up-to what extent do you agree with it:
 (A) 1 cm (B) 1.0 cm
 (C) 1.03 cm (D) 1.032 cm
- 5** Actual value of latent heat of vaporization of one kg water at 100°C is:
 (A) $3.26 \times 10^6 \text{ Jkg}^{-1}$ (B) $2.26 \times 10^6 \text{ Jkg}^{-1}$
 (C) $4.26 \times 10^6 \text{ Jkg}^{-1}$ (D) $5.26 \times 10^6 \text{ Jkg}^{-1}$
- 6** 50 Km h^{-1} will be equal to:
 (A) 13.88 ms^{-1} (B) 14.88 ms^{-1}
 (C) 15.88 ms^{-1} (D) 16.88 ms^{-1}
- 7** Heat capacity of 5 kg of water will be:
 (A) 21000 JK^{-1} (B) 22000 JK^{-1}
 (C) 23000 JK^{-1} (D) 24000 JK^{-1}
- 8** A string is stretched by two equal and opposite forces 10N each. The tension in the string is:
 (A) 8 N (B) 20 N
 (C) 10 N (D) Zero
- 9** The mass of a body:
 (A) Decreases when accelerated
 (B) Increases when accelerated
 (C) Decreases when moving with high velocity
 (D) Remains constant
- 10** If the velocity of a body becomes double, then its kinetic energy will:
 (A) Becomes four times (B) Becomes half
 (C) Becomes double (D) Remains the same
- 11** A force of 10N is making an angle of 30° with horizontal, its horizontal component will be :
 (A) 7 N (B) 8.7 N
 (C) 4 N (D) 5 N
- 12** In Einstein's mass-energy equation 'C' is the :
 (A) Speed of electron (B) Speed of earth
 (C) Speed of sound (D) Speed of light