

9th Class 2021

Physics	Group-I	Paper-I
Time: 15 Minutes	(Objective Type)	Marks: 12

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- In SI, unit of pressure is Pascal, which is equal to:**
- (a) 10^4 Nm^{-2} (b) 1 Nm^{-2} ✓
(c) 10^2 Nm^2 (d) 10^3 Nm^{-2}
- 2- Mass of the Earth is:**
- (a) $6 \times 10^{24} \text{ kg}$ ✓ (b) $6 \times 10^4 \text{ kg}$
(c) $6 \times 10^{20} \text{ kg}$ (d) $6 \times 10^{10} \text{ kg}$
- 3- The number of perpendicular components of a vector are:**
- (a) 1 (b) 2 ✓
(c) 5 (d) 4
- 4- In solids, heat is transferred by:**
- (a) Radiation (b) Conduction ✓
(c) Convection (d) Absorption
- 5- The ways by which transfer of heat takes place are:**
- (a) 1 (b) 2
(c) 3 ✓ (d) 4
- 6- Which one of the following is the smallest quantity?**
- (a) 0.01 g (b) 2 mg
(c) $100 \mu\text{g}$ (d) 5000 ng ✓

- 7- If the velocity of a body becomes double, then its kinetic energy:
- (a) Remains same
 - (b) Becomes double ✓
 - (c) Becomes four times
 - (d) Becomes half
- 8- A change in position is called:
- (a) Torque
 - (b) Velocity
 - (c) Displacement ✓
 - (d) Momentum
- 9- Which of the following material has largest specific heat?
- (a) Copper
 - (b) Ice
 - (c) Water ✓
 - (d) Mercury
- 10- Earth's gravitational force of attraction vanishes at:
- (a) 6,400 km
 - (b) Infinity ✓
 - (c) 42,300 km
 - (d) 1,000 km
- 11- Inertia depends upon:
- (a) Force
 - (b) Net force
 - (c) Mass ✓
 - (d) Velocity
- 12- Rate of change of momentum is equal to:
- (a) Torque
 - (b) Force ✓
 - (c) Distance
 - (d) Velocity