

10th Class 2020

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. 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 houses, consumption of electric energy is measured in:
- (a) Kilowatt-hour ✓ (b) Watts
(c) Watt-hour (d) Joule-hour
- 2- The brain of any computer system is:
- (a) CPU ✓ (b) Monitor
(c) Memory (d) Disks
- 3- The defect of vision "Farsightedness" can be corrected with the aid of suitable:
- (a) Concave lens
(b) Convex lens ✓
(c) Convex mirror
(d) Double concave lens
- 4- In a logic gate, if $X = A \cdot B$, then X is "1" when:
- (a) $A = 0$ or $B = 0$
(b) $A = 1$ and $B = 1$ ✓
(c) $A = 0$ and $B = 1$
(d) $A = 1$ or $B = 0$

- 5- Release of energy by the sun is due to:
- (a) Nuclear fission
 - (b) Burning of gases
 - (c) Nuclear fusion ✓
 - (d) Chemical reaction
- 6- When water waves enter the region of shallow water, which quantity will change:
- (a) Frequency
 - (b) Time period
 - (c) Amplitude
 - (d) Wavelength ✓
- 7- Let two resistances R_1 and R_2 are combined in parallel in a circuit, their equivalent resistance will be:
- (a) $R_e = R_1 + R_2$
 - (b) $\frac{1}{R_e} = \frac{1}{R_1} + \frac{1}{R_2}$ ✓
 - (c) $R_e = R_1 \times R_2$
 - (d) $R_e = \frac{1}{R_1} \times \frac{1}{R_2}$
- 8- The frequency of ultrasounds is _____ than the frequency of audible sound waves.
- (a) Higher ✓
 - (b) Less
 - (c) Equal
 - (d) Less and equal
- 9- The direction of induced e.m.f. in a circuit is in accordance with conservation of:
- (a) Mass
 - (b) Charge
 - (c) Energy ✓
 - (d) Momentum
- 10- Five joule of work is needed to shift 10 coulomb of charge from one place to another, the potential difference between the places is:
- (a) 2 V
 - (b) 5 V
 - (c) 10 V
 - (d) 0.5 V ✓

- 11- If a ray in glass is incident on air surface at an angle greater than critical angle, the ray will:
- (a) Reflect only ✓
 - (b) Diffract
 - (c) Refract only
 - (d) Partially refract and partially reflect
- 12- The branch of physics which deals with the control of motion of electrons is:
- (a) Mechanics
 - (b) Dynamics
 - (c) Nuclear physics
 - (d) Electronics ✓

