Physics	Tenth, 2025 Lahore Board	Group – II
Time: 15 Min.	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 The relation between v, f and λ of a wave is

Ⓐ $vf = \lambda$ Ⓑ $f\lambda = v$
Ⓒ $v\lambda = f$ Ⓓ $v = \lambda/f$

2 Which form of energy is sound.

Ⓐ Mechanical Ⓑ Electrical
Ⓒ Thermal Ⓓ Chemical

3 S I unit of capacitance of a capacitor is:

Ⓐ V (volt) Ⓑ A (ampere)
Ⓒ F (farad) Ⓓ N (newton)

4 Which of the following quantity is not changed during refraction of light:

Ⓐ Its direction Ⓑ Its speed
Ⓒ Its wavelength Ⓓ Its frequency

5 Five joules of work is needed to shift 10 C of charge from one place to another. The potential difference between the places is.

Ⓐ 0.5 V Ⓑ 2 V
Ⓒ 5 Ⓓ 10 V

6 An electric current in conductors is due to the flow of:

Ⓐ Positive ions Ⓑ Negative ions
Ⓒ Positive charges Ⓓ Free electrons

7 The direction of induced e.m.f in a circuit is in accordance with conservation of.

Ⓐ Mass Ⓑ Energy
Ⓒ Charge Ⓓ Momentum

8 Half-life of carbon-14 is:

Ⓐ 123 years Ⓑ 30 years
Ⓒ 5730 years Ⓓ 7530 years

9 The process by which electrons are emitted by a hot metal surface is known as:

Ⓐ Boiling Ⓑ Evaporation
Ⓒ Conduction Ⓓ Thermionic emission

10 What does the term e-mail stand for:

Ⓐ Emergency mail Ⓑ Electronic mail
Ⓒ Extra mail Ⓓ External mail

11 Release of energy by the sun is due to:

Ⓐ Nuclear fission Ⓑ Chemical reaction
Ⓒ Nuclear fusion Ⓓ Burning of gases

12 Formula for the electric potential is:

Ⓐ $v = \frac{w}{q}$ Ⓑ $v = qw$
Ⓒ $v = \frac{q}{w}$ Ⓓ $v = 2qw$