

**PHYSICS**223-1<sup>st</sup> Annual-(INTER PART – II)

Time Allowed : 20 Minutes

Q.PAPER – II ( Objective Type )

GROUP – I

Maximum Marks : 17

**PAPER CODE = 8471**

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	For which material medium, force between two charged particles is maximum :
	(A) Ammonia (B) Germanium (C) Mica (D) Teflon
2	The force between two similar unit charges separated one meter apart in air is :
	(A) Zero (B) One Newton (C) $9 \times 10^9 N$ (D) $9 \times 10^{-9} N$
3	Kirchhoff's 2 <sup>nd</sup> rule is based on :
	(A) Energy conservation (B) Mass conservation (C) Charge conservation (D) Momentum conservation
4	Which one has least resistance :
	(A) Galvanometer (B) Ammeter (C) Voltmeter (D) Ohm-meter
5	A voltmeter is always connected in :
	(A) Parallel (B) Series (C) Perpendicular (D) Oblique
6	If we make magnetic field stronger the value of induced current is :
	(A) Decreased (B) Increased (C) Vanishes (D) Constant
7	The device which consume electrical energy is called :
	(A) Generator (B) Motor (C) Load (D) Dissipaters
8	At high frequency the current through a capacitor of A.C. circuit will be :
	(A) Small (B) Infinite (C) Zero (D) Large
9	A.C. through inductor, the applied voltage :
	(A) Leads the current $\frac{\pi}{2}$ (B) Lags the current $\frac{\pi}{2}$ (C) In phase (D) Out of phase $180^\circ$
10	The crystalline structure of NaCl is :
	(A) Trigonal (B) Cubical (C) Tetragonal (D) Hexagonal
11	Minimum diode required for full wave rectifier are :
	(A) 1 (B) 3 (C) 2 (D) 4
12	Photovoltaic cell formed from :
	(A) Arsenic (B) Carbon (C) Germanium (D) Silicon
13	Unit of Plank's constant is same as that of :
	(A) Entropy (B) Angular momentum (C) Acceleration (D) Force
14	Stefen Boltzmann Law is given by :
	(A) $E = hf$ (B) $E = mc^2$ (C) $E = \sigma T^4$ (D) $\lambda \times T = \text{constant}$
15	Radiation produced from TV picture tube is :
	(A) Gamma rays (B) X-rays (C) Infrared light (D) $\beta$ -rays
16	What is difference in isotopes :
	(A) Number of electron (B) Number of proton (C) Charge number (D) Number of neutron
17	A proton consists of quark which are :
	(A) All up (B) One up, two down (C) Two up, one down (D) All down