Roll No. _____ (To be filled in by the candidate)

PHYSICS   222-(INTER PART – II)   Time Allowed : 20 Minutes
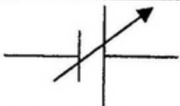
Q.PAPER – II (Objective Type)   GROUP – II   Maximum Marks : 17

PAPER CODE = 8474

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	$\dfrac{E}{B}$ has the unit of : (A) meter (B) ms^{-1} (C) ms^{-2} (D) s^{-2}	
2	If V_o is peak value of A.C. voltage then mean square value of voltage is : (A) $\dfrac{V_o}{\sqrt{2}}$ (B) $V_o^{\,2}$ (C) $\dfrac{1}{2}V_o^{\,2}$ (D) V	
3	A black body is both an ideal absorber and an ideal : (A) Reflector (B) Radiator (C) Conductor (D) Insulator	
4	Energy given out per nucleon per fission of heavy element like uranium is : (A) 200 MeV (B) 208 MeV (C) 5 MeV (D) 0.9 MeV	
5	Electric flux through a closed surface enclosing a charge depends on : (A) Medium (B) Size (C) Shape (D) Location of charge	
6	is symbol of : (A) High tension battery (B) Low tension battery (C) Variable voltage battery (D) Zero resistance battery	
7	Thermo-couples produce electric energy by : (A) Heat (B) Chemical energy (C) Sunlight (D) Mechanical energy	
8	When PN junction is conducting then its resistance is of the order of : (A) Mega Ohm (B) Kilo Ohm (C) 100 Ohm (D) Few Ohms	
9	Two quark combination forms : (A) Mesons (B) Baryons (C) Leptons (D) No Composite particle	
10	Lenz's law is also a statement of law of conservation of : (A) Linear momentum (B) Angular momentum (C) Energy (D) Charge	
11	Unit of electric intensity is same as : (A) Force (B) Potential gradient (C) Viscosity (D) Magnetic field	
12	If the frequency of A.C is 40 Hz then current passing through filament bulb get brilliance : (A) 100 times (B) 80 times (C) 40 times (D) 50 times	
13	A metal meter rod is moving at the speed of 0.5 ms^{-1} in the direction parallel to a 0.5 T magnetic field, emf will be : (A) 0.25 V (B) 0.5 V (C) Zero (D) 0.125 V	
14	In cubical crystal, all the sides meet at : (A) Acute angle (B) Abtuse angle (C) Right angle (D) 45°	
15	Work done by a magnetic force of 5 N when a q charge is displaced 2 m is : (A) Non-zero (B) Zero (C) 10 J (D) 5 J	
16	The observations on objects moving very fast, approaching the speed of light, are well explained by : (A) Quantum theory (B) Newton's law (C) Special theory of relativity (D) Kepler's law	
17	Plank's constant has the unit of : (A) Linear momentum (B) Angular momentum (C) Torque (D) Force	