

## PHYSICS PAPER-II (NEW SCHEME)

TIME ALLOWED: 20 Minutes

## GROUP-II

OBJECTIVE

MAXIMUM MARKS: 17

**Note:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

## Q.No.1

- (1) The value of Plank's Constant  $h$  is:-  
 (A)  $6.63 \times 10^{-34} J.S$  (B)  $6.63 \times 10^{-34} J/S$  (C)  $6.63 \times 10^{-34} J.S^2$  (D)  $6.63 \times 10^{-34} J/S^2$
- (2) Atom can reside in metastable state for:-  
 (A)  $10^{-1}$  sec (B)  $10^{-2}$  sec (C)  $10^{-3}$  sec (D)  $10^{-4}$  sec
- (3) Half life of Uranium-239 is:-  
 (A) 26.5 minutes (B) 24.5 minutes (C) 25.5 minutes (D) 23.5 minutes
- (4) Electrons are:-  
 (A) Hadrons (B) Leptons (C) Quarks (D) Baryons
- (5) SI unit of Electric flux is:-  
 (A)  $Nmc^{-1}$  (B)  $Nm^{-1}c^{-1}$  (C)  $Nm^2c^{-1}$  (D)  $Nm^3c^{-2}$
- (6) The quantity  $\frac{\Delta V}{\Delta r}$  is called:-  
 (A) Electric potential (B) Electric energy (C) Potential barrier (D) Potential gradient
- (7) In Carbon resistors, the value of Blue Colour is:-  
 (A) 7 (B) 6 (C) 8 (D) 9
- (8) 1 Tesla =  
 (A)  $N^{-1} A m$  (B)  $1 N A m^2$  (C)  $1 N A^{-1} m^{-2}$  (D)  $1 N A^{-1} m^{-1}$
- (9) Force on a charged particle is zero when projected at angle with the magnetic field.  
 (A)  $0^\circ$  (B)  $90^\circ$  (C)  $180^\circ$  (D)  $270^\circ$
- (10) In case of inductor, energy is stored in the:-  
 (A) Electric field (B) Magnetic field (C) Potential field (D) Gravitational field
- (11) Commutator was invented by:-  
 (A) Henry (B) Oersted (C) William Sturgeon (D) Maxwell
- (12) Main reason for worldwide use of A.C is:-  
 (A) It is cheaper (B) Transmitted to long distance (C) Both A and B (D) Reaches in short time
- (13) The combined effect of resistance and reactance is known as:-  
 (A) Inductance (B) Conductance (C) Resistance (D) Impedance
- (14) Young's modulus for water is:-  
 (A) Zero (B) 1 (C) 2 (D) 3
- (15) Greater concentration of impurity is added in:-  
 (A) Base (B) Emitter (C) Collector (D) LED
- (16) The ratio  $\beta$  in transistor is called:-  
 (A) Current gain (B) Voltage gain (C) Nuclear gain (D) Emitter gain
- (17) Earth's orbital speed is:-  
 (A) 10 km/s (B) 20 km/s (C) 30 km/s (D) 40 km/s