(Academic Sessions 2015 – 2017 to 2017 – 2019)

PHYSICS   219-(INTER PART – II)   Time Allowed : 20 Minutes

Q.PAPER – II (Objective Type)   GROUP – I   Maximum Marks : 17

PAPER CODE = 8477

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 energy of photon is given by :
	(A) $\frac{1}{2}mv^2$ (B) $v_o e$ (C) $m_o c^2$ (D) hf
2	The sum of negative and positive peak values is :
	(A) Average value (B) rms value (C) Peak value (D) p-p value
3	The unit of $\bar{E}$ is NC^{-1} and that of $\bar{B}$ is $NA^{-1}m^{-1}$ then the unit of $\frac{\bar{E}}{\bar{B}}$ is :
	(A) ms^{-2} (B) $m^{-1}s^{-1}$ (C) ms (D) ms^{-1}
4	The common emitter current amplification factor β is given by :
	(A) $\frac{I_C}{I_E}$ (B) $\frac{I_C}{I_B}$ (C) $\frac{I_E}{I_B}$ (D) $\frac{I_B}{I_C}$
5	Resistance in choke is :
	(A) Large (B) Very small (C) Zero (D) Infinite
6	Sec/Ohm is equal to :
	(A) Farad (B) Coulomb (C) Joule (D) Ampere
7	Number of neutrons in $^{235}_{92}U$:
	(A) 92 (B) 235 (C) 143 (D) 327
8	Commutators are used in :
	(A) D.C. generators (B) A.C. generators (C) A.C. motor (D) A.C. rotator
9	The factor $\frac{h}{m_o c}$ in Compton equation has the dimension of :
	(A) Pressure (B) Length (C) Mass (D) Momentum
10	If a charged body is moved against the electric field, it will gain :
	(A) P.E. (B) K.E (C) Mechanical energy (D) Electrical potential energy
11	In p-type substances, the majority charge carriers are :
	(A) Electrons (B) Protons (C) Holes (D) Neutrons
12	When a wire of resistance R is cut into two equal parts then resistance of each wire is :
	(A) Double (B) Half (C) Remain same (D) One forth
13	Energy of the 4th orbit in hydrogen atom is :
	(A) – 2.51 eV (B) – 3 .50 eV (C) – 13.6 eV (D) – 0.85 eV
14	The gain of non-inverting amplifier is :
	(A) $1+\frac{R_2}{R_1}$ (B) $1+\frac{R_1}{R_2}$ (C) $\frac{-R_2}{R_1}$ (D) $\frac{-R_1}{R_2}$
15	X-rays are the electromagnetic radiations having the wavelength in range :
	(A) $10^{-12}m$ (B) $10^{-10}m$ (C) $10^{-8}m$ (D) $10^{-6}m$
16	To construct a step up transformer :
	(A) $N_s > N_p$ (B) $N_s < N_p$ (C) $N_s = N_p$ (D) $N_s N_p = 1$
17	The magnetic force is simply a :
	(A) Reflecting force (B) Restoring force
	(C) Deflecting force (D) Gravitational force