Inter (Part-II) 2019

Physics	Group-l	PAPER: II
Time: 20 Minutes	(OBJECTIVE TYPE)	Marks: 17

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.

The energy of photon is given by: 1-1-

- (a) $\frac{1}{2} \text{ miv}^2$
- (b) v_ee
- (c) m_oc²
- (d) hf 1/

The sum of negative and positive peak values is:

- (a) Average value (b) rms value
- (c) Peak value
- (d) p-p value √
- The unit of E is NC-1 and that of B is NA-1 m-1, then the unit of \Rightarrow is:
 - (a) ms^{-2}
- (b) m-1s-1

(c) ms

(d) ms-1 1/

The common emitter current amplification factor β is given by:

(a)
$$\frac{I_c}{I_E}$$

(b)
$$\frac{I_C}{I_B} \sqrt{\frac{I_B}{I_C}}$$

(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		
9	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 $\sqrt{}$ (d) 327		
그런 것을 들는 점점 하고 없었다. 하나 하는 없는 그들에게 뭐라면 하는 사람이 이 어린 것을 했다.		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 1		
		(c) Mass (d) Momentum		
	10-			
		field, it will gain:		
		(a) P.E. (b) K.E		
		(c) Mechanical energy		
		(d) Electrical potential energy 1/2		
7	11-	In p-type substances, the majority charge carriers are:		
		(a) Electrons (b) Protons		
		(c) Holes $\sqrt{}$ (d) Neutrons		
	12	When a wire of resistance R is cut into two		
12- When a equal par		equal parts, then resistance of each wire is:		
		(a) Double (b) Half √		
		(c) Remain same (d) One-fourth		

- Energy of the 4th orbit in hydrogen atom is: 13-
 - (a) -2.51 eV
- (b) -3.50 eV
- (c) 13.6 eV
- (d) $-0.85 \text{ eV } \sqrt{}$
- 14-The gain of non-inverting amplifier is:
 - (a) $1 + \frac{R_2}{R_1} \sqrt{}$ (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) $10^{-10} \text{ m } \sqrt{}$
- (c) 10^{-8} m
- (d) 10⁻⁶ m
- To construct a step-up transformer: 16-
 - (a) $N_s > N_p \sqrt{}$
- (b) $N_s < N_p$
- (c) $N_s = N_o$
- (d) $N_s N_p = 1$
- The magnetic force is simply a: 17-
 - (a) Reflecting force
 - (b) Restoring force
 - (c) Deflecting force v
 - (d) Gravitational force