HSSC-(P-iI)-A/2023

Paper Code

Roll No

to be filled in by the candidate

(For All Sessions)

Rwp-12-2-23 Physics (Objective)

Time: 26 Minutes

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which

answe		consider correct, fill the co becomes necessary w			n front o'	f each question with Mark	er or Pen	ink on the answer sheet provid
	(A)	Comparator	(13)	Rectifier	(C)	Inverter	(D)	Night switch
2.	If velocity of body becomes equal to 'C' then its mass becomes:							
	(A)	0 kg	(13)	$m = m_0$	(C)	$M \rightarrow \infty$	(D)	$m = \frac{\text{mo}}{2}$
3.	Which one is low energy photon?							
	(A)	Visible light	(13)	Infrared light	(C)	Ultraviolet light	(D)	x-ray
4.	In Helium – Neon Laser, the percentage of Helium is:							
	(A)	75%	(1:)	65%	(C)	60%	··(D).	85%
5.	The number of neutron present in the nucleus is given by:							
	(A)	N = A - Z	(f·)	N = A + Z	(C)	N = Z - A	(D)	$N = A \times Z$
6.	The binding energy per nucleon is maximum for:							
*	(A)	Radium	(E)	Polonium	(C)	- Iron	, (D),	Heilum
7.	Elect	ric flux through a close	d surface	depends upon:				
	(A)	Charge	(E)	Medium	(C)	Charge & Medium	(D)	Geometry
3.	The negative of potential gradient is:							
	(A)	Electrostatic force	(B)	Electric field-intensity	(C)	Potential difference	(D)	Electromotive force
9.	Char	ge carrier in electrolyte	are:		i. Sa		?	
	(A)	Positive & negative in	on (B)	Protons	(C)	Electron	(D)	Holes
10.	The sum of electric and magnetic orce is called:							
	(A)	Maxwell force	(B:	Lorentz force	(C)	Newton force	(1	O) Centripetal force
11.	Current passing through the coil of galvanometer is:							
	(A)	$\frac{CN \theta}{BA}$	<u>(</u> 8)	NAB θ C	(C)	$\frac{AN}{BC}$	(D)	$\frac{C \ \theta}{BAN}$
12.	Induced emf can be increased by:							
	(A) Increase resistance of coil (B) Decrease resistance of coil (C) Increase number of turns (D) Decrease magnetic flux							
13.	The working principle of transformer is:							
	(A)	Self induction	(B)	Faraday Law	(C)	Mutual induction	(D)	Electromagnetic induction
14.	The wave form of alternating voltaçie is a:							
	(A)	Sine curve	(B)	Tan curve	(C)	Cotangent curve	(D)	Cosine curve
15.	The main advantage of use of A.C is:							
	(A) Minimum line losses (B) Long distance (C) Step up to required voltage (D) Step up to						Step up to required current	
6.	Which	h of the following does	not go bla	stic deformation:				
	(A)	Copper	(B)	Wrought iron	(C)	Lead	(D)	Glass

The output voltage of rectifier is: (A)

(A)

17.

(B) Pulsating Smooth

Perfectly direct (C) 631-12-A-

(D)