

Physics

Paper : II

Roll No.

(To be filled in by the candidate)

HSSC (12th) 2nd Annual 2022

Time : 20 Minutes

Objective – (ii)

Marks : 17

Paper Code

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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

SECTION-A

Q.1	Questions	A	B	C	D
1.	The slope of $q-t$ curve at any instant of time gives:	<u>Current</u>	Voltage	Charge	Resistance
2.	The unit of $\sqrt{LC}$ is:	Henry	Hertz	<u>Second</u>	Ampere
3.	Which of the given has least hysteresis loop area?	Steel	<u>Soft iron</u>	Wrought iron	Cobalt
4.	Greater concentration of impurity is added in:	Base	<u>Emitter</u>	Collector	Both A and B
5.	The input resistance of an op-amplifier is:	Zero	Low	Equal to output	<u>High</u>
6.	The energy of photon of wavelength $500nm$ is:	<u>$2.49eV$</u>	$3.10eV$	$1.77eV$	$1.52eV$
7.	When platinum is heated, it becomes orange at:	$500^{\circ}C$	$900^{\circ}C$	<u>$1100^{\circ}C$</u>	$1300^{\circ}C$
8.	Rydberg constant has numerical value:	<u>$1.0974 \times 10^7 m^{-1}$</u>	$6.34 \times 10^{-34} m^{-1}$	$6.02 \times 10^{-34} m^{-1}$	$1.6 \times 10^{19} m^{-1}$
9.	A set of three quarks makes a:	Meson	<u>Baryon</u>	Leptons	All of these
10.	The best place for storing the nuclear wastes is:	Ocean	Depositing in earth	Depositing in deserts	<u>Bottom of old salt mines</u>
11.	Henry is S.I unit of:	Current	Resistance	<u>Self-inductance</u>	flux
12.	The motional emf is given by:	qvB	IBA	qE	<u>VBL</u>
13.	Magnetic flux density at a point due to current carrying coil is determined by:	Lenz's Law	<u>Ampere's Law</u>	Faraday's Law	Gauss's Law
14.	A dot ($\bullet$) represents the direction of magnetic field:	<u>Out of page</u>	Into the page	Tangent to the page	Parallel to the page
15.	What is the smallest total resistance which can be obtained using 6Ω and 12Ω resistors?	2Ω	6Ω	<u>4Ω</u>	8Ω
16.	Relative permittivity of a material is 10, its absolute or actual permittivity is:	$8.85 \times 10^{-12} F/m$	<u>$8.85 \times 10^{-11} F/m$</u>	$9 \times 10^9 F/m$	$10 F/m$
17.	If the potential difference across two plates of a capacitor is doubled the energy stored in it will be:	Two times	Eight times	<u>Four times</u>	Same

CANCELLED