

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