

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	Unit of impedance is:	A. Ohm B. $\text{Ohm}^{-1}$ C. no unit D. $\text{Ohm m}^{-1}$
2	Two metallic sphere of radius 2 cm and 4 cm get equal quantity of charge. Which has greater surface charge density ?	A. 2 <sup>nd</sup> sphere B. Both have same C. First sphere D. None of these
3	The charge of an alpha particle is equal to	A. -e B. +e C. -2e D. 2e
4	For step down transformer	A. $N_s > N_p$ B. $N_p > N_s$ C. $N_s = N_p$ D. $N_s < N_p$
5	The capacitance of a capacitor depends upon.	A. Thickness of plates B. Charges on the plates C. Voltage applied D. Geometry of the capacitor
6	Resistance of choke is	A. zero B. Large C. Very small D. Infinite
7	_____ has the largest de Broglie wavelength at same speed.	A. Proton B. Alpha particle C. Carbon atom D. Electron
8	At resonance, the behavior of R-L-C series circuit is.	A. Resistive B. Capacitive C. Inductive D. Modulative
9	The idea of laser device was first introduced by C.H. Towners and Authers Schowman is	A. 1972 B. 1965 C. 1958 D. 1913
10	In case of op-amp as an inverting amplifier, $V_+ - V_- = 0$ , this is because	A. Open gain loop is very low B. Closed loop gain is very high C. Open loop gain is very high D. Both (a) and (b)
11	Electric potential at a distance "r" from "q" is:	A. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ B. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$ C. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$ D. $V = \frac{1}{4\pi\epsilon_0} \frac{q}{r}$
12	A charged particle having charge 'q' is moving at right angle to magnetic field. The quantity which varies is.	A. Speed B. Kinetic energy C. Path of motion D. angular velocity
13	The physical quantity related to photon, that does not change in Compton scattering is.	A. Energy B. Speed C. Frequency D. Wavelength
14	The reactance of inductor depends upon	A. L B. All of the above
15	One joule of energy absorbed per kilogram of a body is	A. Roentgen B. Grey C. Rem D. Curie

16	Efficiency of transformer does not affected by	A. Input voltage B. Core of transformer C. Insulation between sheet D. Resistance of coils
17	The net charge on a capacitor magnitude of charge of charge	A. Infinity B. $2q$ C. $Q/2$ D. Zero
18	Coercive force is used to	A. Demagnetize the material B. Magnetize the material C. Extend it D. None of these
19	The total charge of any nucleus is:	A. $Ze$ B. $Z$ C. Both a and b D. None of above
20	The Unit of decay constant.	A. Second B. (second) <sup>-1</sup> C. m <sup>-1</sup> D. mk