

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	Gauss's law can only be applied to.	A. A curved surface B. A flat surface C. A closed surface D. A surface of any shape
2	In a coil current change from 2 to 4 A in .05 s . If the average induced emf is 8 V then coefficient of self-inductance is:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
3	The particles which do not experience strong force are called.	A. Baryons B. Hadrons C. Mesons D. Laptons
4	Potassium Cathodes in photocell emit electrons for a light.	A. Visible B. Infra red C. Ultra violet D. X rays
5	If a charged body is moved against the electric field it will gain.	A. P.E. B. K.E. C. Mechanical energy D. Electrical potential energy
6	X- ray diffraction reveals that these are	A. Particle type B. Wave type C. Both wave and particle D. None of above
7	The negative of the potential gradient is	A. Electrostatic force B. Electromotive force C. Potential difference D. Electric field intensity
8	The most useful tracer is.	A. Strontium -90 B. Iodine -31 C. Cobalt -60 D. Carbon -14
9	Recently superconductor discovered is at temperature.	A. 110K B. 143K C. 16.3K D. 119K
10	In case of capacitor, the unit of reactance is	A. Farad B. Ohm C. Newton D. All of these
11	Helium Neon Laser Beam emitted from discharge tube has a colour.	A. Blue B. Green C. Red D. Black
12	The rest mass x ray photon is	A. Infinite B. Zero C. $1.67 \times 10^{-17}$ kg D. All of the above
13	The sensitivity of Galvanometer can be increased by:	A. Increasing C/BAN factor B. Decreasing C/BAN factor C. Increasing angle $\theta$ D. All of above
14	When a coil is moved in a uniform magnetic field, an induced emf is produced due of change in	A. Flux density B. Electric flux C. Magnetic flux D. Magnetic field strength
15	Two metallic sphere of radius 2 cm and 4 cm get equal quantity of charge. Which has greater surface charge density ?	A. $2^{nd}$ sphere B. Both have same C. First sphere D. None of these

16	The number of neutron present in a nucleus is given by	A. $N = A + Z$ B. $N = A - Z$ C. $N = Z - A$ D. $N = A \times Z$
17	Anti particle of electron is	A. Proton B. Photon C. Neutron D. Positron
18	Unit of Stefan's constant is	A. $\text{W m}^{-2} \text{K}^{-2}$ B. $\text{W m}^{-2} \text{K}^{-4}$ C. $\text{W m}^{-4} \text{K}^{-4}$ D. None
19	The unit of magnetic induction B is	A. Coulomb B. Ampere C. Coulomb/ampere D. $\text{Weber/m}^2$
20	Two parallel, metal plates are a distance 8.00 m apart. The electric field between the plates is uniform, directed toward the right, and has a magnitude of 4.00 N/C. If an ion of charge $+2e$ is released at rest at the left-hand plate. What is its kinetic energy when it reaches the right-hand plate?	A. 4 eV B. 64 eV C. 32 eV D. 16 eV