

Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	If F_1 and F_2 are the magnetic forces acting on a particle and electron respectively when moving perpendicular to the magnetic field then.	A. $F_1 = F_2$ B. $F_1 > F_2$ C. $F_1 < F_2$ D. $F_1 = 4F_2$
2	1 amu =	A. 9.31 MeV B. 931 MeV C. 9.031 MeV D. None of above
3	Helium Neon Laser Beam emitted from discharge tube has a colour.	A. Blue B. Green C. Red D. Black
4	A charge Q is divided into two parts q and $Q-q$ and separated by a distance R . The force of equilibrium between them will be maximum when:	A. $q = Q/4$ B. $q = Q/2$ C. $q = Q$ D. None of these
5	The stopping potential for a certain metal is 10 volts. Thus work function for the cathode is.	A. 10 J B. 1.6×10^{-18} J C. 1.6×10^{-19} J D. 1.6×10^{-30} J
6	When an electron in an atom goes from a lower to higher orbit its:	A. K.E increases , P.E decreases B. K.E increases , P.E increases C. K.E decreases , P.E increases D. K.E decreases , P.E decreases
7	the force between two charge is 28 N. If paraffin wax of relative permittivity 2.8 is introduced between the charges as medium, then the force reduces to.	A. 25 N B. 20 N C. 10 N D. 15 N
8	The energy of the photon of wavelength 500 nm is.	A. 3.10 eV B. 2.49 eV C. 1.77 eV D. 1.52 eV
9	In Series resonance circuit the impedance of circuit at resonance frequency, is	A. Maximum B. Minimum C. It is unequal to R D. None of above
10	The product of resistance and capacitance is.	A. Velocity B. Force C. Acceleration D. Time
11	The building blocks of protons and neutrons are called.	A. Ions B. Electrons C. Positrons D. quarks
12	For workers in nuclear facilities is, a weekly dose of is normally considered safe	A. 1.0 msv B. 5.0 msv C. 2.0 msv D. 3.0 msv
13	Lenz's law was given by Heinrich Lenz in:	A. 1894 B. 1904 C. 1854 D. 1834
14	In extrinsic semiconductors doping is of the order of.	A. 1 atom to 10^4 B. 1 atom to 10^6 C. 1 atom to 10^8 D. 1 atom to 10^3
15	The electric field created by positive charge is:	A. Radially outward B. Circular C. Radially inward D. Zero

16	How many times, the alpha particle is more massive than electrons.	A. 6332 B. 7332 C. 8332 D. 9332
17	The SI unit of Stress is:	A. Nm B. Nm^2 C. Nm^{-2} D. Nm^3
18	Commutator was invented in	A. 1834 B. 1820 C. 1840 D. 1835
19	$B^2/2\mu$ is the expression of.	A. Lenz's law B. Magnetic energy C. Magnetic energy density D. Back emf
20	The potential difference across the depletion region of germanium is.	A. 0.3 V B. 0.5 V C. 0.7 V D. 0.8 V
