

Physics ICS Part 2 Chapter 14 Online MCQ's Test

Sr	Questions	Answers Choice
1	A current carrying conductor experience maximum magnetic force in a uniform magnetic field when it is placed.	A. Perpendicular to field B. Parallel to field C. At an angle of 60° to the field D. None of these
2	Magnetic lines of force are.	A. Imaginary B. Real C. Perpendicular D. In phase with electric lines of force
3	A charged particle enters in a strong magnetic field its K.E.	A. Remain constant B. Increases C. Decreases D. Increases then decreases
4	The magnetic force is simply a	A. Reflecting force B. Deflecting force C. Restoring force D. Gravitational force
5	The SI Unit of magnetic induction is.	A. Weber B. Tesla C. Gauss D. Newton
6	_____ is correct relation.	A. $\mu = \frac{1}{4\pi} \frac{B^2}{\mu_0 H}$ B. $\mu = \frac{1}{4\pi} \frac{B^2}{\mu_0 H}$ C. $\mu = \frac{1}{4\pi} \frac{B^2}{\mu_0 H}$ D. $\mu = \frac{1}{4\pi} \frac{B^2}{\mu_0 H}$
7	A dot represents the direction of magnetic field.	A. Out of page B. Into the page C. Tangent to page D. Parallels to page
8	Two parallel wires carrying currents in the opposite direction.	A. Repel each other B. Attract each other C. Have no effect upon each other D. They cancel out their individual magnetic fields.
9	Write the SI unit of magnetic flux.	A. Tesla B. Weber C. Weber m ⁻² D. Tesla m ²
10	The SI unit of E is NC ⁻¹ and that of B is Na ⁻¹ m ⁻¹ then the unit of E/B is.	A. ms ⁻² B. ms C. ms ⁻¹ D. m ⁻¹ s ⁻¹
11	A Current flowing towards the reader is denoted by.	A. Cross B. a bracket C. A dot D. Positive sign
12	The unit of permeability of free space is:	A. T.m/A B. T.m ² /A C. T.m/A ² D. None of these
13	Ampere's law is applicable to:	A. Circular path B. Rectangular path C. To any closed path D. Nonwe of these
14	The force on a charge particle moving parallel to magnetic field is:	A. Maximum B. Minimum C. Zero D. None of these
15	An electron moves at 2×10^2 m/sec perpendicular to magnetic field of 2T what is the magnitude of magnetic force:	A. 1×10^{-6} N B. 6.4×10^{-17} N C. 3.6×10^{-24} N D. None of these

D. $4 \times 10^6 \text{ N}$

16 One weber is equal to:

- A. $\text{N} \cdot \text{A}^2 / \text{m}$
- B. $\text{N} \cdot \text{m}^2 / \text{A}$
- C. $\text{N} \cdot \text{A} / \text{m}$
- D. $\text{N} \cdot \text{m} / \text{A}$

17 The Weber is unit of measure of:

- A. Conductance
- B. Electric current
- C. Magnetic flux
- D. Electric flux