SMART TEST SERIES

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Name:		Subject:	Physics-12
Roll # :		Unit(s):	14,
Class:	Inter Part-II	Test:	Type 1 - MCQs Test - Marks=20
Date:		Time:	

Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (20x1=20)

1 A current flowing towards the reader is denoted by:
(A) Cross (B) A bracket (C) A dot (D) Positive sign

2 The unit of E 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) $m^{-1}s^{-1}$

3 A dot represents the direction of magnetic field:
(A) Out of page (B) Into the page (C) Tangent topage (D) Parallel to page

4 Two parallel wires carrying curent in the same direction:
(A) Have no effect (B) Repel each other (C) Have no field around them
(D) Attract each other

5 1 Tesla =___.
(A) $N^{-1}Am$ (B) $1NAm^2$ (C) $1NA^{-1}m^2$ (D) $1NA^{-1}m^{-1}$

6 The SI unit of magnetic induction Tesla is equal to:
(A) $N^{-1}Am$ (B) NAm^2 (C) $NA^{-1}n^2$ (D) $NA^{-1}m^{-1}$

7 Magnetic induction can be measured in units of:
(A) Tesla (B) Gauss (C) $Weber/m^2$ (D) All of above

8 The SI unit of flux density is:
(A) Gauss (B) Tesla (C) Weber/meter (D) Weber

9 For a current carrying solenoid the term "n" has has unit as:
(A) No unit (B) m^{-1} (C) m^{-2} (D) m^{-3}

10 If a charge is at rest in a magnetic field then force on charge is:
(A) Zero (B) $q\left(\rightarrow V \times \rightarrow B\right)$ (C) $q\,VB\,Sin\Theta$ (D) $Q\,VB\,Cos\Theta$

11 The magnetic force on an electron traveling with 10^6 ms^{-1} parallel to a field strength 1 Web m^{-2} is:
(A) 10^{-12} N (B) Zero (C) 10^3 N (D) 1.6×10^{-12} N

12 Lorentz force is given by:
(A) $q\left(\rightarrow E - \rightarrow V \times \rightarrow B\right)$ (B) $q\left(\rightarrow E + \rightarrow V \times \rightarrow B\right)$ (C) $q[\vec{E} \times (\vec{V} + \vec{B})]$
(D) $q\left(\rightarrow V + \rightarrow E \times \rightarrow B\right)$

13 When a charge is projected perpendicular to a uniform magnetic field, its path is:
(A) Spiral (B) helix (C) Ellipse (D) Circular

14 The e/m of a neutron is:
(A) less than electron (B) zero (C) greater than election (D) the same as electron

15 Grid in cathode ray oscilloscope controls.
(A) Numbers of electrons. (B) Temperature of filament. (C) Frequency of electrons.
(D) Energy of electrons.

16 The brightness of the spot on CRO screen is controlled by:
(A) Anode (B) Cathode (C) Grid (D) Deflecting plates

17 Current passing through the coil of galvanometer is:
(A) $\frac{C\Theta}{BAN}$ (B) $\frac{C\Theta}{BA}$ (C) $\frac{NAB}{C\Theta}$ (D) $\frac{AN}{BC\Theta}$

18 Shunt resistance is:
(A) Low resistance (B) High resistance (C) Zero resistance (D) Impedance

19 In order to increase the range of voltmeter R_H is:
(A) Increased (B) Decreased (C) Unchanged (D) Increased by 4 times

20 An Avo meter can also be called as:
(A) Digital multimeter (B) Digital voltmeter (C) Digital ammeter (D) Digital ohmmeter

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MCQs Ans Key

Q:1 (C)	Q:2 (C)	Q:3 (A)	Q:4 (D)	Q:5 (D)	Q:6 (D)
Q:7 (D)	Q:8 (B)	Q:9 (B)	Q:10 (A)	Q:11 (B)	Q:12 (B)
Q:13 (D)	Q:14 (B)	Q:15 (A)	Q:16 (C)	Q:17 (A)	Q:18 (A)
Q:19 (A)	Q:20 (A)				