



SMART TEST SERIES

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Name:		Subject:	Physics-12
Roll # :		Unit(s):	12,
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)

- SI Unit of permittivity of free space are:
(A) Nm^2c^{-2} (B) $N^{-1}m^2c^{-1}$ (C) $C^2N^{-1}m^{-2}$ (D) $C^2N^{-1}m^{-2}$
- The force between two point charges separated by air in 4N when separated by a medium of relative permittivity 2, the force between them become:
(A) $\frac{1}{2}N$ (B) 2 N (C) 4 N (D) 8 N
- A billion electrons are added to pith ball. Its charge is:
(A) $-1.6 \times 10^{-10} C$ (B) $-1.6 \times 10^{-12} C$ (C) $-1.6 \times 10^{-14} C$ (D) $-1.6 \times 10^{-7} C$
- The value of charge on 1.0×10^7 electrons is:
(A) $1.6 \times 10^{-12} C$ (B) $1.6 \times 10^{+11} C$ (C) $1.6 \times 10^{-19} C$ (D) $1.6 \times 10^{+19} C$
- The study of electric charges at rest under the action of electric forces is known as:
(A) Electromagnetism (B) Electrostatics (C) Magnetic Induction (D) Electric field
- Electric coefficient is represented by:
(A) ϵ_0 (B) ϵ_r (C) μ_0 (D) μ_r
- NC^{-1} is the SI unit of:
(A) Force (B) Charge (C) Current (D) Electric intensity
- The electric field lines are closer where the field is:
(A) Strong (B) Weak (C) Uniform (D) Variable
- A charge of 4 Coulomb is in the field of intensity 4N/C. The force on the charge is:
(A) 8N (B) 16 N (C) 4 N (D) 1 N
- If electric lines of force are equally spaced the electric field is:
(A) Uniform (B) Non-uniform (C) Weak (D) Strong
- Photo copier and inkjet printer are the applications of:
(A) Magnetism (B) Electricity (C) Electro-magnetism (D) Electrostatic
- The photo copying process is called:
(A) Photography (B) Scanning (C) Xerography (D) Holography
- Electric flux is maximum, when angle between and surface area is:
(A) 0° (B) 90° (C) 180° (D) 45°
- Total flux through a closed surface depends on:
(A) Shape of surface (B) Charge enclosed only (C) Medium only (D) Charge and Medium
- Electric flux does not depend upon:
(A) Medium (B) Shape of closed surface (C) Charge enclosed
(D) Medium and charge enclosed
- Intensity of field inside a hollow charged sphere will be:
(A) negative (B) Unaffected (C) Zero (D) Maximum
- Special organ called ampullae of Lorenzini that are very sensitive to electric field are found in:
(A) Bats (B) Cats (C) Dogs (D) Sharks
- Electron volt is the Unit of:
(A) Potential (B) Potential difference (C) Electric current (D) Electric energy
- The capacitance of a capacitor depends upon:
(A) Thickness of plates (B) Charges on the plates (C) Voltage applied
(D) Geometry of the capacitor
- Due to polarization, electric field E.
(A) Increases (B) Decreases (C) First increases then decreases (D) Remains same



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MCQs Ans Key.

Q:1 (D)

Q:2 (B)

Q:3 (D)

Q:4 (A)

Q:5 (B)

Q:6 (A)

Q:7 (D)

Q:8 (A)

Q:9 (B)

Q:10 (A)

Q:11 (D)

Q:12 (C)

Q:13 (A)

Q:14 (D)

Q:15 (B)

Q:16 (C)

Q:17 (D)

Q:18 (D)

Q:19 (C)

Q:20 (B)