

Assignment

Class:12

Subject: Physics

Unit – 1.

PART - A

I. One Mark Questions

1. The unit of charge is _____
2. The value of " ϵ_0 " is _____
3. Electric potential is _____ quantity
4. The electric lines start from _____ to _____
5. Torque experienced by on electric dipole in the uniform electric field $\tau =$

6. If the point 'p' lies on the equatorial line of the dipole, then $\theta = 90^\circ$, Hence " τ "

7. What is polarization?
8. The value of IMF is ?
9. What is action of point?
10. The SI unit of capacitance is?

PART - B

II. Very Short Answer.

1. State coulomb"s law
2. Define electric dipole.
3. Define Equi – potential surface
4. What is electric flux?
5. Write Gauss law

PART – C

III. Short Answer

1. Verify coulomb's law
2. Write the properties of electric lines of force.
3. Derive Electric potential due to a point charge
4. Explain the energy stored in the capacitor.
5. Write the application of capacitors.

PART – D

IV. Write in detail.

1. Derive the Electric field due to an electric dipole at point of the axial line.

