HOME ASSSIGNMENT FOR SUMMER VACATION-2019-20

Sub : Physics F.M : 20

Class: XII

1. Find the expression for electric field intensity due to

   i. at axial position
   ii. equatorial position
   iii. at an position
   due to electric dipole
2. Find the expression for torque acting on the electric dipole.
3. Find the expression for electric potential energy of an electric dipole when placed in the uniform electric field.
4. State and explain Gauss's law. Write its application.
5. Find electric potential due to
   i. a point charge
   ii. Axial position
   iii. Equatorial position
   iv. At any position
   due to an electric dipole.
6. Find the capacitance when dielectric/conducting slab is inserted between the plates.
7. Find total energy due to capacitor.
8. State and explain Drift Velocity and its relation with current.
9. State and explain Kirchhoff's law and its application.
10. Do numericals of the chapter Current Electricity from N.C.E.R.T. book.