

Physics.

1. Explain whether Gauss law is useful in calculating the electric field due to three equal charges located at the corner of an equilateral triangle.?
- 2- Determine the electric field due to a plane infinite sheet of charge.
- 3- Kinetic energy of a charged particle decreases by 10 as it moves from a point that potential hundred volt to a point at potential 200 volt .find the charge on the particle.
- 4- Define electric potential. Derive the the derivation of potential due to a point charge at distance r .

CHEMISTRY

1. Define alcohols and phenols.
2. Write the optical isomers of C_4H_9OH .
3. What is denatured spirit ?
4. Why do ethers behave as Lewis bases?
5. What is carboxylic acid?