

Section C
Attempt any Two

- Q.9 Explain the Gauss' law for magnetic fields. (3)
- Q.10 Compare analogue between Electrostatics and Magnetism. (3)
- Q.11 A rectangular coil of length 10 cm and breadth 4 cm has 200 turns of insulated wire. Find current passing through the wire to produce a magnetic moment of 20 Am^2 (3)

Section D
Attempt any One

- Q.12 State properties of magnet (Magnetic dipole). (4)
- A magnet makes an angle of 45° with the horizontal in a plane making an angle of 30° with the magnetic meridian. Find the true value of the dip angle at the place.
- Q.13 Two small and similar bar magnets have magnetic dipole moment of 1.0 Am^2 each. They are kept in a plane in such a way that their axes are perpendicular to each other. A line drawn through the axis of one magnet passes through the center of other magnet. If the distance between their centres is 2 m, find the magnitude of magnetic field at the mid point of the line joining their centers. (4)