## Chapter – 5

## **Magnetism and Matter**

**Magnetic field lines:** 

- Q. Mention the properties of magnetic field lines. [July 2014, M 2015, M 2017]
  Q. Draw the pattern of magnetic field lines for a bar magnet. [March 2014] Magnetic dipole:
- Q. State and explain Gauss law of magnetism. [J 16, M 17, M 18, J 19]
- **O.** Prove that a current carrying solenoid is equivalent to bar magnet. [June 2017, March 2018]
- Q. Write the expression for magnetic potential energy of a dipole in a uniform magnetic field and explain the terms [March 2018]

**Terrestrial magnetism:** 

- Q. Define declination at a place. [March 2014, March 2015, June 2015, March 2017, March 2018, March 2019, June 20191
- Q. Define inclination at a place or magnetic dip. [March 2014, June 2015, March 2017, March 2018, March 2019]
- Q. Define horizontal component of earth's magnetic field at a place. [M 2014] Q. Where is magnetic dip zero on the earth's surface? [July 2016, July 2018]

- Q. Define magnetisation. [March 2016, March 2017]
  Q. Name the SI unit of magnetisation? [June 2015, March 2017]
  Q. Define magnetic susceptibility. [March 2014, March 2019]

**Magnetic materials:** 

Q. State and explain Curie law. [June 2015, July 2016, July 2018] **Hysteresis:** 

Q. What is Hysteresis? [March 2018]

- Q. Draw hysteresis curve. Or Draw the variation of magnetic field with magnetic intensity when a ferromagnetic substance is subjected to cycle of magnetization. [March 2016]
- O. What is retentivity and coercivity? [March 2018, July 2018, June 2019]

