

- c) 1 and 4 only
- d) 2, 3 and 4 only

Q.3) Solution (c)

Basic Information:

Geomagnetism (also known as **terrestrial magnetism**) is the scientific study of the earth from the point of view of its magnetic properties.

The Earth acts like a **large spherical magnet**. It is surrounded by a **magnetic field** that changes with time and location. The field is generated by a **dipole magnet** (i.e., a straight magnet with a North and South Pole) located at the centre of the Earth. The axis of the dipole is offset from the axis of the Earth's rotation by approximately **11 degrees**. This means that the north and south geographic poles and the north and south magnetic poles are not located in the same place. At any point and time, the Earth's magnetic field is characterized by a **direction** and **intensity** which can be measured.

