

# Complete PHYSICS

### IIT-JEE · NEET · CBSE eBOOKS CLASS 11&12th

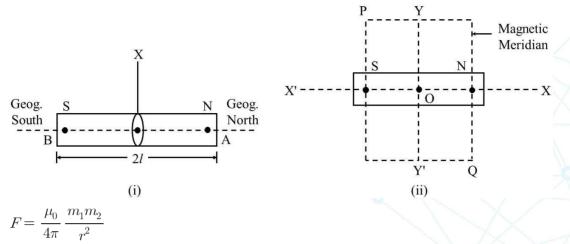


## CLASS 12th Magnetism and Matter

#### 01. The Bar Magnet

#### (i) The Bar Magnet

It is the most commonly used form of an artificial magnet.



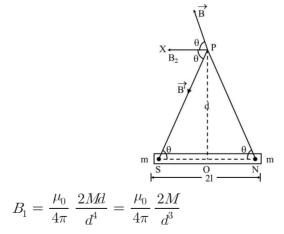
#### 02. The Magnetic Field Lines

Magnetic field line is an imaginary curve, thetangent to which at any point give us the direction of magnetic field  $\vec{B}$  at that point.

The path along which the compass needles are aligned is known as magnetic field line.

#### 03. Magnetic Field Strength At a Point Due to Bar Magnet

The strength of magnetic field at any point is defined as the force experienced by a hypothetical unit north pole placed at that point. It is a vector quantity. The direction of magnetic field  $(\vec{B})$  is the direction along which hypothetical unit north pole would tend to move if free to do so.





3