

CBSE Class 12 physics  
Important Questions  
Chapter 4  
Moving Charges and Magnetism

1 Mark Questions

1. State two properties of the material of the wire used for suspension of the coil in a moving coil galvanometer?

Ans. (a) Non-Brittle conductor

(b) Restoring Torque per unit Twist should be small.

2. What will be the path of a charged particle moving along the direction of a uniform magnetic field?

Ans. The path of a charged particle will be a straight line path as no force acts on the particle.

3. Two wires of equal lengths are bent in the form of two loops. One of the loop is square shaped whereas the other loop is circular. These are suspended in a uniform magnetic field and the same current is passed through them. Which loop will experience greater torque? Give reasons?

Ans. since  $\tau = NIAB$

Since Area of - circular loops is more Than of a square loop

=> Torque experienced by a circular loop is greater.

4. A cyclotron is not suitable to accelerate electron. Why?

Ans. A cyclotron is not suitable to accelerate electron because its mass is less due to which they gain speed and stop out of the dee immediately

# Mastering Physics Chapter 3 Answers

**Sebastian Brünink**



**Mastering Physics Chapter 3 Answers:**

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