

Magnetic Effects of Electric Current - Previous Years Questions

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Magnetic Effects of Electric Current - Previous Years Questions

1. How is the type of current that we receive in domestic circuit different from one that runs a clock ? **[1 Mark] [CBSE 2015]**
2. State the observation made by Oersted on the basis of his experiment with current carrying conductor. **[1 Mark] [CBSE 2016]**
3. Name the rule which gives the direction of induced current in a conductor. **[1 Mark] [CBSE 2016]**
4. What are magnetic field lines? Justify the following statements.
 1. Two magnetic field lines never intersect each other.
 2. Magnetic field lines are closed curves. **[3 Marks] [CBSE 2015]**
5. Find the direction of magnetic field due to a current carrying circular coil held:
 1. Vertically in North-South plane & an observer looking it from East sees the current to flow in anti-clockwise direction.
 2. Vertically in East-West plane & an observer looking it from South sees the current to flow in anti-clockwise direction.
 3. Horizontally & an observer looking at it from below sees current to flow in clockwise direction. **[3 Marks] [CBSE 2016]**
6. .
 1. A coil of insulated wire is connected to a galvanometer. What would be observed if a strong bar magnet with its south pole towards one face of the coil is
 1. moved quickly toward it?
 2. moved quickly away from it?
 3. held stationary near it?
 2. Name the phenomena involved.
 3. state the conclusion based on the observations in (1), (2) & (3). **[3 Marks] [CBSE 2020]**
7. .
 1. Draw the pattern of magnetic field lines due to a magnetic field through & around a current carrying circular loop.
 2. Name & state the rule to find out the direction of magnetic field inside & around the loop. **[3 Marks] [CBSE 2020]**
8. .
 1. State Fleming's left hand rule.
 2. Write the principle of working of an electric motor.
 3. Explain the function of the following parts of an electric motor.

1. Armature 2. Brushes 3. Split ring **[5 Marks][CBSE 2018]**

9. .

1. Name & state the rule to determine the direction of force experienced by a current carrying straight conductor placed in a uniform magnetic field which is perpendicular to it.
2. Draw a labelled diagram of an electric motor. **[5 Marks] [CBSE 2019]**

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