

BHARATH COACHING CENTRE

10th CBSE

Magnetic Effect of Electric Current

Total: 40

Science

Time: 1.00hrs

SECTION – A

6 x 1 = 6

- 1) What is a solenoid?
- 2) Name an instrument in which the directive property of a magnet is used.
- 3) Name the device used to protect the electric circuit from overloading and short circuiting
- 4) Explain Fleming left hand rule.
- 5) Define magnetic field.
- 6) The frequency of power supply used in India is_____.

SECTION – B

2 x 5 =10

- 7) Define electromagnet.
- 8) When is the force experienced by a current –carrying conductor placed in the magnetic field?
- 9) Draw a sketch of the pattern of field lines due to:
i) Current flowing into a circular coil ii) Solenoid carrying current
- 10) List out the source of magnetic field.
- 11) Name some source of direct current.

SECTION – C

4 x 6 =24

- 12) What is the function of an earth wire? Draw a neat sketch of circuit diagram.
- 13) Explain about electric motor with diagram?
- 14) Explain about electric generator with diagram?
- 15) Explain about the solenoid and also explain how to measure the magnetic lines?
- 16) What is an electromagnet? Draw a circuit diagram to show how a soft iron pieces can be changed into an electromagnet?
- 17) What is short circuiting and overloading in an electric supply?

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