

3rd Term Worksheet [2018 – 19]

Subject – Physics

Class – VII

Name :

Sec. :

Chapter – 7

[Magnetism]

Check Point:

[A] Answer the following questions: [127]

1. Name the scientist who first discovered the magnetic effect of electric current.

Ans. _____

2. Describe in brief the way in which he discovered the magnetic effect of electricity.

Ans. _____

3. You are given soft iron nail, some insulated wires and an electric cell. Show diagrammatically the way in which you can make your own electromagnet.

Ans. _____

4. What do you understand by 'deflection'?

Ans. _____

[129]

Magnet: _____

Magnetism: _____

Magnetic compass: _____

[129-131]

[A] Multiple Choice Questions: [129-130]

- (i) A freely suspended magnet would align itself in
 - (a) North direction
 - (b) North-East direction
 - (c) North-south direction
 - (d) East-West direction
- (ii) From the following set of material choose the one which is magnetic material:
 - (a) Wood
 - (b) Rubber
 - (c) Iron
 - (d) Silver
- (iii) When north pole of a magnet is brought close to the south pole of another magnet, they will _____ each other.
 - (a) Repel
 - (b) Attract
 - (c) Shows no response
 - (d) None of these
- (iv) A magnet that retains its property for a long period of time is called
 - (a) Temporary magnet
 - (b) Super magnet
 - (c) Permanent magnet
 - (d) Strong magnet
- (v) North and south poles of a magnet align themselves in the _____ of the Earth.
 - (a) Geographic north and south direction
 - (b) Magnetic north and south direction
 - (c) Geographic south and north direction
 - (d) Magnetic south and north direction

[B] Fill in the blanks: [130]

1. Like poles _____, whereas unlike poles _____ other.
2. A magnet, no matter how big or small, will always have _____.
3. _____ has a magnetic needle which can be used for finding directions.
4. Electric bell and loudspeaker are examples of _____.

[C] Differentiate between the following: [130]

- [illegible]

2. Attraction and repulsion of magnets : _____

[D] Answer the questions: [130]

1. What is a magnet?

Ans- _____

2. How many poles does a magnet have? Name them. Why are they called so?

Ans- _____

3. What is meant by south pole of a magnet?

Ans- _____

4. Name some devices in which magnets are used.

Ans- _____

5. Name some devices in which electromagnets are used.

Ans- _____

6. Define the directive property of a magnet.

Ans-

[illegible]

7. How can magnets be used for finding directions?

Ans-

[illegible]

8. Repulsion is the sure test of magnetism. Explain.

Ans-

[illegible]

9. List some uses of magnets and electromagnets.

Ans-

[illegible]

10. Describe with the help of an experiment how we can detect the poles of bar magnet.

Ans.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on its right side, suggesting it's resting on a surface. There is no handwriting or other markings on the paper.

11. Explain the properties of a magnet with a suitable experiment.

Ans.

[illegible]

12. How can an object made of iron or steel be converted into a magnet? Explain with a suitable experiment.

Ans.

[illegible]

[illegible]

Keywords: [142]

Current: _____

Battery: _____

[A] Multiple Choice Questions: [142]

- (i) Electricity is a form of
 - (a) energy
 - (b) matter
 - (c) neither matter nor energy
 - (d) none of these
- (ii) The good conductor of electricity is
 - (a) hydrogen
 - (b) oxygen
 - (c) silver
 - (d) plastic
- (iii) Charges always occur
 - (a) together
 - (b) separate
 - (c) freely
 - (d) none of these
- (iv) Electric current is measured by a device called
 - (a) voltmeter
 - (b) ammeter
 - (c) electroscope
 - (d) none of these

[B] Fill in the blanks:

[143]

1. An ampere is unit of _____.
2. An ammeter is uses for _____.
3. An electric current is flow of _____ in a conductor.
4. In a battery the electron flows from its _____ terminal to its _____ terminal.

[C] Give reasons for the following:

[143]

1. An electric appliance should be earthed.

[illegible]

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2. The person should use gloves (made from insulating material) while electrical repairing.

[illegible]

3. In homes and other places the electric wiring is done in parallel combination.

[illegible]

4. Why it is necessary to connect MCBs in domestic electric circuits?

[illegible]

5. How is a short circuit caused?

[143]

- Ans. _____
- _____
- _____
- _____
- _____

- Ans. _____
- _____
- _____
- _____
- _____

- Ans. _____
- _____
- _____
- _____
- _____

- Ans. _____
- _____
- _____
- _____
- _____
- _____

- [illegible]

6. List some appliances around you that depends on electricity for their operation.

Ans. _____

7. Make a list of materials around you which conduct electricity and a list of these that do not.

Ans. _____

