

Textbook questions

Revision test 2

Instructions for students: Follow your teacher's instruction. Also you can attempt this test online and see your result.

[Attempt online and know results](#)

Topic: Textbook questions

Dates: 25.10.2022 until unlimited

Question count: 3

Total marks: 14

1. Answer in detail I (7 m.)

You are provided with an iron needle. How will you magnetize it?

1. Place a piece of iron needle or a nail on the table.

2. Place

- A) one end
- B) iron nail
- C) iron filings

of a bar magnet near one edge of the iron needle or a nail.

3. Till you reach the other end,

- A) move the bar magnet

- B)** move the iron nail
- C)** move the needle

along the

- A)** length
- B)** width
- C)** material

of the iron needle or a nail.

4. Now, bring the pole to the

- A)** ending point
- B)** middle point
- C)** starting point

of the iron needle or a nail and move it in the

- A)** same direction
- B)** opposite direction

again.

5. Note that the pole of the magnet and its direction

- A)** should not change
- B)** should change

6. Repeat this process around

- A)** 30 to 40 times
- B)** 1 to 2 times
- C)** 3 to 4 times

7. Now, check whether it has become a magnet by placing some

- A)** iron nail
- B)** iron needle
- C)** iron filings

near the piece of an iron needle or a nail.

8. If not,

- A)** continue the process
- B)** do continue the process

again until it gets magnetized.

9. By this method of

- A)** magnetization
- B)** attraction
- C)** repulsion

, we can convert an iron needle into a magnet.

Click to view solution for similar question online

[View solution](#)

2. Questions based on Higher Order Thinking Skills I (5 m.)

You are provided with iron filings and a bar magnet without labelling the poles of the magnet. Using this...

a. How will you identify the poles of the magnet?

A bar magnet when placed in a sheet spread with

- A) iron filings, attracts
- B) clay, repels
- C) sand, attracts

the filings towards its

- A) ends
- B) centre
- C) top

The

- A) ends
- B) centre
- C) bottom

of a bar magnet that

- A) attracts
- B) repels

most of the iron filings are called its

- A) magnet
- B) poles
- C) bar magnet

b. Which part of the bar magnet attracts more iron filings? Why?

The attractive force of the magnet is high on its

- A) poles**
- B) centre**
- C) upper side**

The magnetic force is

- A) maximum at the poles**
- B) minimum at the poles**
- C) minimum at the centre**

and

- A) minimum at the poles**
- B) maximum at the poles**
- C) minimum at the centre**

of a bar magnet. This applies not only to a bar magnet but also to

- A) all kinds of magnets**
- B) horseshoe magnets**

Click to view solution for similar question online

[View solution](#)

3. Questions based on Higher Order Thinking Skills III (2 m.)

**Take a glass of water with a few pins inside.
How will you take out the pins without
dipping your hands into water?**

If a strong

- A) bar magnet
- B) paper
- C) wood

is kept above the glass of water, all the pins inside the water

- A) comes up and attracts
- B) goes up and attracts
- C) comes up and repels

the magnet.

Click to view solution for similar question online

[View solution](#)