Textbook questions Revision test 2

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

Solve online

1. Answer in detail I (7 m.)

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

View solution

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

   B) ending point
   C) middle point
   D) 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

   B) should not change
   C) 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,

B) continue the process
C) do continue the process

again until it gets magnetized.

9. By this method of

B) magnetization
C) attraction
D) repulsion

, we can convert an iron needle into a magnet.

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...

View solution

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

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?

View solution

If a strong

A) bar magnet
B) papper
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.