PHYSICS

BOOKS - NAVNEET PHYSICS (MARATHI ENGLISH)

FUN WITH MAGNETS

Question Bank

1. Can you tell ?

Pins in a pin holder do not fall even when it is

held upside down. Why is this so?

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2. Can you tell ?

While we are shutting the door of a fridge, we find that it closes automatically from a certain distance and does not open unless pulled again. Why is this so ?

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3. Let's try this :

Take a magnet from the laboratory and bring it near various objects in your use. Which of them stick to the magnet ? What material is each of them made of ? Observe the things carefully.

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4. Let's try this :

Take a mixture of sand, pieces of paper,

sawdust, iron filings and pins in a saucer and pass a magnet around the mixture. What do you see ?

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5. Let's try this :

Determine the directions in the class or laboratory. Tie a thread to the centre of a bar magnet and hang it from a stand. Note the direction in which the magnet settles and turn around again. Let it settle and note the

direction. Do this many times. What do you observe ?

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6. Let's try this :

Place some iron filings on a sheet of paper and pass a bar magnet by holding it in the centre. What do you see ?

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7. Let's try this :

Take a bar magnet that can be cut with scissors or a knife. Take iron filings on a sheet of paper and place the magnet on it. Most of the iron filings will be seen to stick to its poles. Now cut the magnet into two pieces as shown in the picture and place those pieces on iron filings. Pick up each piece and observe. What do you find ?

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8. Let's try this :

Fix a powerful bar magnet to a stand as shown in the figure. Fix an iron bar at a short distance below the magnet. Take iron filings near the iron bar. What do you see ?

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9. Let's try this :

Fix a bar magnet to a stand as shown in the figure. Let it become steady. Take another bar magnet near the hanging bar magnet.

Observe what happens. Do the same again and again, exchanging the ends of a magnet. What do you see ?

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10. Let's try this :

Take a needle or a nail. Place it steady on a table. Keep on rubbing a magnet over it from one end to the other. Do this 7-8 times. Now take a few pins near that needle/nail. What is seen?

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11. Fill in the blanks with the appropriate words :

If a bar magnet is hung by a thread tied at its centre, its north pole becomes steady in the direction of the ..... Pole of the earth.

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12. Fill in the blanks with the appropriate words :

If a bar magnet is cut into equal pieces by cutting it at right angles to its axis at two places, ... bar magnets are formed, and a total of ..... poles are formed.

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13. Fill in the blanks with the appropriate words :

A magnet remains steady in a .....

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14. Fill in the blanks with the appropriate words :

When magnetic material is taken close to a magnet, the material acquires .....

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15. Fill in the blanks with the appropriate words :

If a magnet attracts a piece of metal, that piece must be made of ..... .

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16. Fill in the blanks with the appropriate words :

A magnet remains steady in a .....

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17. Write whether the given statement is True or False. If false, correct and rewrite them :

Magnetism is a kind of energy.

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18. Write whether the given statement is True or False. If false, correct and rewrite them :

Electromagnetism is permanent.

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19. Write whether the given statement is True or False. If false, correct and rewrite them :

Scientific discoveries should be used for the good of mankind.

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20. Write whether the given statement is True or False. If false, correct and rewrite them :

After heating the magnet, its magnetism increases.

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21. Write whether the given statement is True or False. If false, correct and rewrite them :

Magnetism is a kind of energy.

Watch Video Solution

22. Write whether the given statement is True or False. If false, correct and rewrite them :

Magnetism is a kind of energy.

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23. Which magnet will you use ?

Iron is to be separated from trash.

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24. Which magnet will you use ?

You are lost in a forest.

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25. Which magnet will you use ?

A window shutter opens and shuts continuously in the wind.

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26. Which magnet will you use ?

The doorbell should ring.

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27. How will you do this ?

Determine whether a material is magnetic or non-magnetic.

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28. How will you do this ?

Explain that magnet has a certain magnetic field.

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29. How will you do this?

Find the north pole of a magnet.

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30. Write the answer in your words :

Write the properties of magnet.

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31. How will you increase the strength of magnetic field in an electromagnet?

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32. Write the answer in your words :

From which metals are permanent magnets made ?

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33. Write the answer in your words :

What are the practical uses of a magnet ?

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34. What is a magnet?

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35. Write the answer in your words :

How does a Maglev train work?

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36. Classify the objects that you use, into two groups : Those which stick to the magnet and

those which do not.

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37. Answer the following questions:

Distinguish between the two methods of making an artificial magnets.

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38. Answer the following question orally :

Which magnets are used in day-to-day life?

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39. Answer the given question orally :

Tell the legend of discovery of magnet.

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40. Choose the correct alternative and write its alphabet against the sub question number:

The principle of electromagnetic.....was invented by Michael Faraday.

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41. Answer the given question orally :

What is a loadstone?

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