PHYSICS

BOOKS - SURA PUBLICATION

Magnetism

Exercise

1. A magnet attracts _____.

A. wooden materials

B. any metal

C. copper

D. iron and steel

Answer:

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2. One of the following is an example for a permanent magnet.

A. Electromagnet

B. Mumetal

C. Soft iron

D. Neodymium

Answer:

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3. The south pole of a bar magnet and the north pole of a U-shaped magnet will _____.

A. attract each other

B. repel each other

C. neither attract nor repel each other

D. None of the above

Answer:

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4. The shape of the Earth's magnetic field resembles that of an imaginary ____.

A. U-shaped magnet

B. straight conductor carrying current

C. solenoid coil

D. bar magnet

Answer:

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5. MRI stands for _____.

A. Magnetic Resonance Imaging

B. Magnetic Running Image

C. Magnetic Radio Imaging

D. Magnetic Radar Imaging

Answer:

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6. A magnet has _____magnetic poles.

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7. Heavy iron pieces can be lifted by _____.

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8. explain a freely suspended magnet is always pointing along the north-south direction.

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9. It is believed that the _____had known the property of magnet even before 200 BC.

A. Indians

B. Japanese

C. Chinese

D. Americans

Answer:

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10. _____is the ore of iron which is the strongest natural magnet.

A. Iron oxide

B. Iron sulphide

C. Ferrite

D. Coulumbite

Answer:

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11. Attractive property of a magnet is more at the_____.

A. North pole

B. South pole

C. both a & b

D. middle

Answer:

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12. A freely suspended magnet aligns along the _____direction.

A. North-east

B. North - west

C. North-south

D. South-west

Answer:

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13. The magnetic field lines_____.

A. are closed curves

B. intersect one another

C. both a and b

D. none of these

Answer:

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14. Example for ferromagnetic substance is _____.

A. nickel

B. oxygen

C. chromium

D. platinum

Answer:

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15. Attractive property of a magnet is more at the_____.

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16. Magnetic poles always exist in _____.

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17. The north pole and the south pole of a magnet_____ each other.

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18. We can trace the magnetic field with the help of a _____.

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19. The unit of frequency is _____.

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20. The strip on the back of a credit card/debit card is a magnetic strip, often called a _____.

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21. Match the following:

1.	Bulb	(a)	Conductor
2.	Electroplating	(b)	Insulator
3.	Pure water	(c)	Heating effect of current
4.	Salt solution	(d)	Chemical effect of current

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22. A compass is used for _____.

A. plotting magnetic lines

B. detection of magnetic field

C. navigation

D. All of these

Answer:

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23. One of the following is an example for a permanent magnet.

A. Electromagnet

B. Mumetal

C. Soft iron

D. Neodymium

Answer:

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24. The magnetic field lines_____.

A. are closed curves

B. intersect one another

C. both a and b

D. none of these

Answer:

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25. A freely suspended magnet aligns along the _____direction.

A. North-east

B. North - west

C. North-south

D. South-west

Answer:

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26. _____are used to lift heavy iron pieces.

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27. A magnet has _____magnetic poles.

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28. Attractive property of a magnet is more at the_____.

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29. The strip on the back of a credit card/debit card is a magnetic strip, often called a _____.

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30. Write True or False. If false, write the correct statement. The compass needle gets

deflected to a large extent, which it is closer to the magnet.

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31. Write True or False. If false, write the correct statement. Magnets found in the nature are called artificial magnets.

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32. Distinguish between natural and artificial magnets.

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33. What is Magnetic field ?

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34. Write a note on Mangle train.

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35. Draw the magnetic field lines for a bar magnet.

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36. How will you convert a 'nail' into a temporary magnet?

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37. Compare the characteristics of diamagnetic, paramagnetic and ferromagnetic materials.

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Example

1. What is Magnetic field ?

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2. What is artificial magnet? Give example.

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3. Distinguish between natural and artificial magnets.

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4. Earth acts as a huge bar magnet. Why? Give reasons.

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5. How can you identify non-magnetic materials? Give an example of a non- magnetic material.

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6. List out the uses of magnets in day-to-day life.

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7. How will you convert a 'nail' into a temporary magnet?

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8. Write a note on Earth's magnetism.

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9. Though Earth is acting as a huge bar magnet it is not attracting other

ferromagnetic materials. Why? Give reasons.

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10. Why it is not advisable to slide a magnet on an iron bar back and forth during magnetising it?

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11. Thalami Dharaga and Sangamithirai were playing with a bar magnet. They put the

magnet down and it broke into four pieces. How many poles will be there?

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12. Magnets found in the nature are called .....

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13. Magnetite is an oxide ore of iron with the formula .....

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14. The unit of magnetic field is

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15. Magnets used in electric bells the example of permanent magnets

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16. What is the other name of lodestone?

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17. Convert 1 tesla into gauss.

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18. Name a few paramagnetic substances.

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19. How artificial magnets are produced?

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20. What is the diameter of the magnetar?

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21. Name the strongest and the most powerful magnets on the Earth.

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22. Name the most commonly used permanent magnet.

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23. What is meant by magnetic axis?

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24. What type of magnet used in Maglev train?

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25. What is meant by a magstripe?

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26. Write a note on magneto - reception.

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27. Mention any two uses of magnets.

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28. Write a note on Mangle train.

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29. What is magnetisation?

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30. Mention the ways by which the magnetic property of a magnet will be removed.

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31. Write a note on Magnetar.

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32. Mention the properties of a magnet.

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33. Give some examples of artificial magnets.

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34. Mention the three types of iron ores.

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35. Draw the magnetic field lines for a bar magnet.

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36. Write a note on : Compass needle.

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37. Write a note on : Magstripe.

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38. Compare the characteristics of diamagnetic, paramagnetic and ferromagnetic materials.

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