



PHYSICS

BOOKS - SURA PHYSICS (TAMIL ENGLISH)

MAGNETISM

Example

1. An object that is attracted by magnet.

A. Wood piece

B. plain pins

C. eraser

D. a piece of paper

Answer:



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2. People who made mariner's compass for the first time

A. Indians

B. Europeans

C. Chinese

D. Egyptians

Answer:



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3. A freely suspended magnet always comes to rest in the ___ direction

A. North-East

B. South-West

C. East-West

D. North-South

Answer:



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4. Magnets lose their properties when they are_____

A. used

B. stored

C. hit with a hummer

D. cleaned

Answer:



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5. Mariner's compass is used to find the

A. speed

B. displacement

C. direction

D. motion

Answer:



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6. Artificial magnets are made in different shapes such as ____ and ____.



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7. The materials which are attracted towards the magnet are called ____.



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8. Paper is not a ___ material.



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9. In olden days, sailors used to find direction by suspending a piece of ____.





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10. A magnet always has ___poles.



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11. True or False.If False give the correct statement: A cylindrical magnet has only one pole.



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12. True or False.If False give the correct statement: Similar poles of a magnet repel each other.



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13. True or False.If False give the correct statement: Maximum iron filings stick in the middle of a bar magnet when it is brought near them.



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14. True or False.If False give the correct statement: A compass can be used to find East-West direction at any place.



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15. True or False.If False give the correct statement: Rubber is a magnetic material.



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16. Match the following:

1. Compass	Maximum magnetic strength
2. Attraction	Like poles
3. Repulsion	Opposite poles
4. Magnetic poles	Magnetic needle



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17. Circle the odd ones and give reasons: Iron nail,pins,rubber tube,needle.



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18. Circle the odd ones and give reasons:
Lift,escalator, electromagnetic train,electric
bulb.



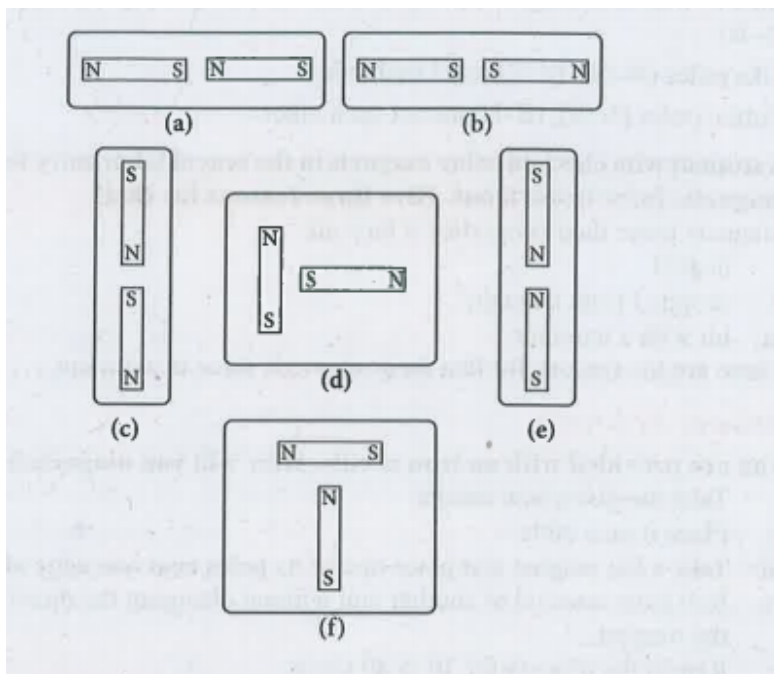
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19. Circle the odd ones and give reasons:
Attraction,repulsion,pointing,direction,illumination.



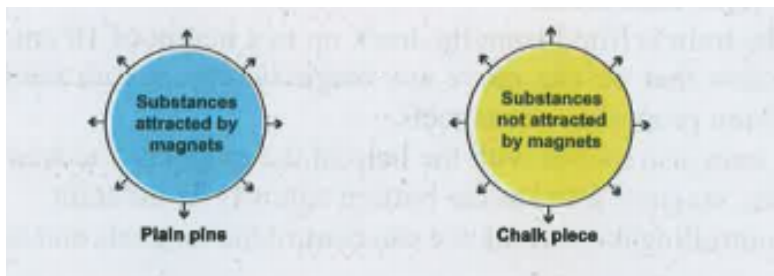
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20. The following diagrams show two magnets near one another. use the word, 'Attract, Repel, Turn around' to describe what happens in each case.



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21. Write down the names of substances:



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22. Explain the attraction and repulsion between magnetic poles.



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23. A student who checked some magnets in the school laboratory found out that their magnetic force is worn out, Give three reasons for that?



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



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25. How does the electromagnetic train work?



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

: How will you identify the poles of the magnet?



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

: Which part of the bar magnet attracts more iron filing? Why?



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28. Two bar magnets are given in the figure A and B. By the property of attraction, identify the North pole and the South pole in the bar magnet (B)



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



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30. ___made objects are attracted by magnets.

A. Plastic

B. Iron

C. Glass

D. Wax

Answer:



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31. Among the following which one is a magnetic substance?

A. Nickel

B. Sodium

C. Oxygen

D. Potassium

Answer:



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32. ___poles repel to each other. (i) N-N (ii) N-S
(iii) S-N(iv)S-S

A. i and ii

B. ii and ii

C. iii and iv

D. i and iv

Answer:



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33. Magnets lose their properties if they are_____.

A. dipped in water

B. dipped in oil

C. heated

D. in freezer

Answer:



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34. Electro magnetiuc trains can easily attain a speed of ___ km per hour

A. 1200

B. 600

C. 100

D. 800

Answer:



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35. The magnetic Ore is called as ____.



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36. ____ magnets do not have a definite shape.



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37. Man-made magnets are called ____ magnets.



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38. A _____ is an instrument which is used to find directions.



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39. What are the objects affected by magnetic field?



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40. For a ___ magnet a single piece of soft iron can be used as a magnetic keeper across the pole.



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41. True or False.If False give the correct statement: Magnetites are artificial magnets.



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42. True or False.If False give the correct statement: Cube shaped magnets are also available.



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43. True or False.If False give the correct statement: Substances which are attracted by magnet are called non-magnetic substance.



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44. True or False.If False give the correct statement: The end point of the magnet that point to the north is called south pole.



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45. True or False.If False give the correct statement: The compass has a magnetice needle that can ratate easily.



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46. True or False.If False give the correct statement: Magnet lose their properties if they are dropped from a height.



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47. True or False.If False give the correct statement: Proper storage can also cause magnets to lose their properties.



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48. True or False.If False give the correct statement: Electro magnetic train is also called as flying train.



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49. Match the following:

I.	Natural magnets	a)	Levitating propeller
II.	Artificial magnets	b)	Wooden spoon
III.	Magnetic substance	c)	Heating
IV.	Non magnetic substance	d)	Bar magnet
V.	Demagnetization	e)	Pin holders
VI.	Electromagnetic train	f)	Magnetite



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50. Analogy: Natural magnet: Magnetic stones.
Artificial magnet: _____



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51. Analogy: Magnetic substance: Attracted by magnets
Non magnetic substance: _____



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52. Analogy: Repel to each other : Like poles.
Attract to each other: _____



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53. Analogy: Demagnetisation:_____Making magnets:Rubbing with one end to other withour changing direction.



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54. Analogy: Electro magnet: Magnetic crane.Ordinary magnet:_____.



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55. Give any four different shapes of artificial magnets.



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56. Differentiate magnetic and non magnetic substance.



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57. Define-Poles of a magnet.





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58. Write the Properties of magnet.



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59. What are the objects affected by magnetic field?



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60. Give any two tips to store bar magnets.



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61. Give the uses of magnets.



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62. How will you make levitating propeller?



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Exercise

1. An object that is attracted by magnet.

A. a wooden piece

B. Plain pin

C. eraser

D. a piece of paper

Answer:



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2. ___poles repel to each other. (i) N-N (ii) N-S
(iii) S-N(iv)S-S

A. i and ii

B. ii and ii

C. iii and iv

D. i and iv

Answer:



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3. Magnets lose their properties when they are ____

A. used

B. stored

C. hit with a hammer

D. cleaned

Answer:



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4. Electro magnetic trains can easily attain a speed of ___ km per hour

A. 1200

B. 600

C. 100

D. 800

Answer:



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5. The materials which are attracted towards the magnet are called ____.



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6. Paper is not a ___ material.



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7. A _____ is an instrument which is used to find directions.





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8. Find whether the following sentences are true or false. If false, correct the statement. Similar poles of a magnet repel to each other.



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9. True or False. If False, give the correct statement: Magnetites are artificial magnets.



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10. True or False. If False give the correct statement: Magnet lose their properties if they are dropped from a height.



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11. Match the following.

1. Compass	i.	Maximum magnetic strength
2. Attraction	ii.	Like poles
3. Repulsion	iii.	Opposite poles
4. Magnetic poles	iv.	Magnetic needle



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12. Analogy: Magnetic substance: Attracted by magnets
Non magnetic substance: _____



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13. Circle the odd ones and give reasons: Iron nail, pins, rubber tube, needle.



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14. Give any four different shapes of artificial magnets.



Watch Video Solution

15. Explain the attraction and repulsion between magnetic poles.



Watch Video Solution

16. Differentiate magnetic and non magnetic substance.



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17. Give any two tips to store bar magnets.



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





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19. Give the uses of magnets.



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