



PHYSICS

BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

CLASSIFICATION OF MAGNETIC MATERIALS

Exercise

1. If a piece of ferromagnetic substance is placed in a non uniform magnetic field, how will it behave ?



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2. If a piece of paramagnetic displaced in a non-uniform magnetic field, how will it behave ?



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3. If a piece of diamagnetic substance is placed in a non-uniform magnetic field, how will it behave ?



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4. Write one property of diamagnetic substance.



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5. Why steel is used to make permanent magnets ?



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6. Write one property of paramagnetic substances.



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7. Why soft iron core is used to make electromagnets ?



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8. Write one property of ferromagnetic substance.



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9. Write one property of ferromagnetic substance.



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10. Write one property of paramagnetic substances.



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11. What is paramagnetic substance ? Give one example.



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12. What is a ferromagnetic substance ? Give one example.



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13. What is Curie point ?



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14. The magnetic susceptibility for a sample has a small negative value. To which class of magnetic substances, does this sample belong?



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15. The magnetic susceptibility for a sample has a small positive value. To which class of

magnetic substances, does the specimen belong?



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16. Define hysteresis.



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17. Write one property of ferromagnetic substance.



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18. Write one property of diamagnetic substance.



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19. Write one property of paramagnetic substances.



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20. Write one property of diamagnetic substance.



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21. Write one property of ferromagnetic substance.



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22. Write whether the given statement is true or false : The magnetic susceptibility (χ_m) of a paramagnetic substance has a small negative value.



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23. Write whether the given statement is true or false : A diamagnetic substance is feebly attracted by a magnet.



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24. Write whether the given statement is true or false : The diamagnetic substance obeys Curie's law. .



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25. What are diamagnetic substances ?



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26. What is a ferromagnetic substance ? Give one example.



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27. Paramagnetic substance obeys Curie's law.
(Yes/No.)



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28. Define magnetic retentivity for a ferromagnetic substance.



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29. Give two points to compare the magnetic properties of steel and soft iron.



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30. What type of magnetic material is used in making electromagnets and why ?



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31. Which material is preferred for making permanent magnets? Give reason for your choice ?



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32. Give four differences between ferromagnetic, paramagnetic and diamagnetic substances ?



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33. What type of magnetic material is used in making electromagnets and why ?



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34. What are permanent and electromagnets ?

Compare their important properties. How permanent magnets are obtained ?



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35. What are dia-, para- and ferro-magnetic materials ? Discuss their important properties.



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36. Explain how an atom behaves as a magnetic dipole ? Find an expression for magnetic dipole moment of a revolving electron.



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