



PHYSICS

BOOKS - BETTER CHOICE PUBLICATION

CLASSIFICATION OF MATERIALS

Very Short Answer Type Question 1 Marks

1. What happens when a diamagnetic substance is placed in a varying magnetic field?



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2. State two properties of a paramagnetic substances.



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3. Write two properties of ferromagnetic substances.



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4. Write one property of paramagnetic substances.



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5. Write two properties of diamagnetic substances.



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6. Write two properties of diamagnetic substances.



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7. What is paramagnetic substance ? Give one example.



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8. What are anti-ferromagnetic substances?

Give one example.



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9. What are diamagnetic substances ? Give

three examples



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10. What are diamagnetic substances ? Give three examples



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11. Why should the high retentivity and low coercivity material used for making electromagnets?



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12. State two most important properties of the alloy used to design permanent magnets.



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



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



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15. Steel is preferred for making permanent magnets, whereas soft iron is preferred for making electromagnets. Give one reason.



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16. What is the purpose of the soft iron core used in making an electromagnet?



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17. What is Curie point?



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18. The magnetic susceptibility for a sample has a small negative value. To which class of

magnetic substances, does the specimen belong?



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



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20. Explain magnetic hysteresis.



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21. Write the S.I. unit of magnetic flux.



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22. Write whether the given statement is true or false : The magnetic susceptibility (χ_m) of a

paramagnetic substance has 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 magnetic.



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24. Write whether the given statement is true or false :

The diamagnetic substance obeys Curle's law.



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Short Answer Type Questions 2 Marks

1. Compare magnetic properties of soft iron and steel.



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2. Which material is used for making electromagnet and why?



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3. Which material is used for making electromagnet and why?



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4. Why soft iron is used in making the core of a transformer ?



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Long Answer Type Questions

1. What are permanent magnets? Give one example.



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2. What are dia, para and ferromagnetic substances? Give one example of each.



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Most Expected Question 1 Marks

1. Define magnetic susceptibility.



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2. What is the effect of temperature on the intensity of magnetisation of paramagnetic substances ?



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3. Why should the material used for making permanent magnets have high coercivity?



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1. Does the magnetisation of a paramagnetic salt depend on temperature ? Give reason for your answer.



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2. Why are all pieces of iron not magnet even though iron is a ferromagnetic material?



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3. The best material for the core of a transformer is



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