PHYSICS

BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

MAGNETIC DIPOLE AND EARTH.S MAGNETISM

Exercise

1. A short bar magnet has a magnetic moment of $0.24JT^{-1}$. Calculate the magnitude of the magnetic field produced by the magnet at a distance of 10 cm from the centre of the magnet, on the axis of the magnet.

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2. A short bar magnet has a magnetic moment of $0.2JT(-1)$. Calculate the magnitude of the magnetic field produced by the magnet at

a distance of 8 cm from the centre of the magnet on the equitorial line of the magnet.

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3. Define magnetic inclination at a point.

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4. Define magnetic inclination at a point.

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5. Define magnetic declination at a place.

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6. Define magnetic inclination at a point.

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7. Define the term magnetic dipole moment.

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8. Why two magnetic lines of forces never intersect each other?

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9. What is neutral point in a magnetic field ?

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10. Write S.I. unit of 'm'(pole strength).

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11. .....Law for magnetism establishes that monopoles do not exist

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12. What are maganetic elements at a place. Define them.

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13. What happens if abar magnet is cut into two equal pieces: transverse to its length

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14. What happens if abar magnet is cut into two equal pieces:along its length.

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15. write units of magnetic dipole moment by taking into consideration the torque acting on it, when placed in magnetic field.

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16. State four properties of a bar magnet.

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17. What is the cause of earth's magnetism?

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18. Explain how an atom behaves as a magnetic dipole ? Find an expression tor- magnetic dipole moment of a revolving electron.

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19. Derive an expression for torque acting on a barmagnet placed in magnetic field

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20. Derive an expression for the magnetic field intensity at a point on the equatorial line of the magnetic dipole.

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21. What is probable cause of earth's magnetism?

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22. Define magneticfield intensity at a point. Derive an expression for magnetic field intensity at a point on the axial line of magnetic dipole with the help of diagram.

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23. Derive an expression for torque acting on a bar magnet placed in a uniform magnetic field.

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24. What is the cause of earth's magnetism?

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25. Derive an expression for the magnetic field intensity at a point on the equatorial line of the magnetic dipole.

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26. Give the possible causes of earth magnetic field.

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27. What are the elements of the earth's magnetic field? Define them.

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28. Define magneticfield intensity at a point. Derive an expression for magnetic field intensity at a point on the axial line of magnetic dipole with the help of diagram.

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29. Derive an expression for the magnetic field intensity at a point on the equatorial line of the magnetic dipole.

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30. Explain how an atom behaves as a magnetic dipole ? Find an expression tor- magnetic dipole moment of a revolving electron.

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31. Define magneticfield intensity at a point. Derive an expression for magnetic field intensity at a point on the axial line of magnetic dipole with the help of diagram.

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32. Define magneticfield intensity at a point. Derive an expression for magnetic field intensity at a point on the axial line of magnetic dipole with the help of diagram.

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33. Derive an expression for Torque acting on a bar magnet placed in a uniform magnetic field.

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34. Give the possible causes of earth magnetic field.

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35. Write SI unit of magnetic dipole moment.

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36. Define magneticfield intensity at a point. Derive an expression for magnetic field intensity at a point on the axial line of magnetic dipole with the help of diagram.

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