



PHYSICS

BOOKS - NAVNEET PUBLICATION

CURRENT ELECTRICITY AND MAGNETISM

Question Bank

1. Which constituents are present in an atom?



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2. What will happen if a glass rod is rubbed on a silk cloth?



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3. How do objects get charges?



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4. What are static and moving charges?



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5. Can the negative charge be made to flow?



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6. Can electricity be made to flow like water flowing from higher level to lower level



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7. Rewrite the sentence after filling the blank:

The SI unit of electric charge is the----



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8. Rewrite the sentence after filling the blank:

The SI unit of electric current is the----



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9. Fill in the blanks:

The SI unit of electric potential difference is the



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10. Rewrite the sentences after filling the blank:

1 ampere = 1 coulomb per----



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11. Rewrite the sentences after filling the blank:

When a glass rod is rubbed on a silk cloth, the glass rod acquires----charge



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12. Write proper words from the following group of words in the blanks and rewrite the completed sentences:

Water in the waterfall flows from a higher level to the lower level because of ----



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13. Write proper words from the following group of words in the blanks and rewrite the completed sentences:

In an electric circuit, electrons flow from a point of ----potential to the point of ----potential



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14. Write proper words from the following group of words in the blanks and rewrite the completed sentences:

The difference between the electrostatic potential of the positive end the negative end of an electric cell is the ---- of the cell



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15. Write proper words from the following group of words in the blanks and rewrite the

completed sentences:

Three electric cells of potential difference 1.5V each have been connected as a battery. The potential difference of the battery will be----V



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16. Write proper words from the following group of words in the blanks and rewrite the completed sentences:

An electric current flowing in a wire creates ---- around the wire.



17. Rewrite the following statements selecting the correct options:

The potential difference between the two electrodes of the lead-acid cell is nearly

A. 1 V

B. 1.2 V

C. 1.5 V

D. 2 V

Answer: D



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18. Rewrite the following statements selecting the correct options:

The Ni-cd cell delivers a potential difference of

A. 1 V

B. 1.2 V

C. 1.5 V

D. 2 V

Answer: B



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19. Rewrite the following statements selecting the correct options:

---- is a scalar quantity

A. Force

B. Acceleration

C. Velocity

D. Electric current

Answer: D



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20. Rewrite the following statements selecting the correct options:

The working of an electric bell is based on ----

A. the heating effect of electric current

B. the chemical effect of electric current

C. the magnetic effect of electric current

D. the optical effect of electric current

Answer: C



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21. Rewrite the following statements selecting

the correct options:

The coulomb is the SI unit of electric-----

A. current

B. resistance

C. potential

D. charge

Answer: D



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22. State whether the following statements are True or False:

The SI unit of electric potential is the ampere.



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23. State whether the following statements are True or False:

In the external circuit, the conventional current flows from the positive terminal of the cell to the negative terminal of the cell



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24. State whether the following statements are True or False:

Very small current flows when lightening occurs



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25. State whether the following statements are True or False:

Sensation is felt by us due to a microscopically small current flowing to the brain.





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26. State whether the following statements are True or False:

In a car battery, a current is produced by the flow of both negatively and positively charged particles.



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27. Identify the odd terms:

Pressure exerted by a liquid, Electric current,

potential difference, Buoyant force



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28. Identify the odd terms:

Electric bulb, Electric heater, Electric bell,

Electric iron



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29. Answer the following question in one sentence

State the relation among the SI units of electric current, electric charge and time.



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30. Answer the following question in one sentence

Name the positive terminal of the dry cell



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31. Answer the following question in one sentence

What constitutes an electric current in a metal?



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32. Answer the following question in one sentence

What is battery?



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33. What is a solar cell?



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34. Answer the following question in one sentence

state one characteristic of the Ni-cd cell.



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35. Answer the following question in one sentence

Give one example in which the magnetic effect of electric current is used.



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36. Answer the following question

When do we get current electricity?



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37. Answer the following question

Explain the concept of electrostatic potential (electric potential)?



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38. Answer the following question

What is the SI unit of electric potential?



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39. Answer the following question:

What is meant by potential difference?



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40. Answer the following question:

What is an electric circuit?



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41. Answer the following question:

What is electric current?



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42. Answer the following question

What is one ampere?



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43. Answer the following question

What is an electric cell? What is its main function



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44. Answer the following question

Name ten devices in which electric cells are used.



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45. Answer the following question

Describe the construction working and usefulness of a dry cell, with the help of a diagram.



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46. Answer the following question

State applications of the lead-acid cell



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47. Answer the following question

What is the potential difference delivered by the Ni-cd cell?



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48. Draw a neat labelled diagram of a simple electric circuit containing a cell, an electric bulb and a plug key.

What happens when the key is open ?



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49. Draw a neat labelled diagram of a simple electric circuit containing a cell, an electric bulb and a plug key.

What happens when the key is closed ?



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50. Electric cells having potential difference 2V each have been connected in the form of a battery .What will be the total potential difference of the battery in the both cases?





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51. A battery is to be formed by joining 3 dry cells with connecting wires. Show how you will connect the wires by drawing a diagram.



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52. In an electric circuit ,a battery and a bulb have been connected and the battery consists of two cells of equal potential difference. If the

bulb is not glowing ,then which tests will you perform in order to find out the reason for the bulb not glowing?



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53. What is the potential difference between A and B if each cell delivers a potential difference of 2V?



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54. You must have seen the car battery available in the market. It is called a battery and not a cell. Why?



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55. What is an electromagnet? State its applications.



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56. Strength of electromagnet can be increased by



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57. Describe the construction and working of an electric bell with the help of a diagram.



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58. What is the use of the elastic iron strip in the electrical bell ?



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59. What will happen if the elastic iron strip in the electric bell loses its flexibility?



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