



PHYSICS

BOOKS - NAVNEET PUBLICATION

STATIC ELECTRICITY

Question Bank

1. Choose the correct option and fill in the blanks :

There is ____ between like charges.



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2. Choose the correct option and fill in the blanks :

_____ does not get electrically charged easily by rubbing.



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3. Answer the following question in one sentence :

In the lightning conductor, what provision is made for spreading the electricity into the ground ?



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4. Choose the correct option and fill in the blanks. :

..... does not get electrically charged easily by rubbing.



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5. Choose the correct option and fill in the blanks :

_____ does not get electrically charged easily by rubbing.



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6. Choose the correct option and fill in the blanks. :

A can be detected with an eletroscope.



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7. Answer the following question in short :

Explain why the repulsion is used as a test for identifying an electrically charged object ?



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8. When a glass rod is rubbed with silk it gains positive charge, because



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9. Distinguish between Charging by Conduction and Charging by Induction.



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10. Answer the following question in one sentence :

How will you protect yourself from lightning?



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11. Answer the following question in one sentence :

How are charges generated?



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12. Answer the following question in one sentence :

In the lightning conductor, what provision is made for spreading the electricity into the ground ?





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13. Answer the following question in one sentence :

What are the uses of noble metals?



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14. Answer the following question in one sentence :

If a glass rod is rubbed against a silk cloth,

what kind of electric charge is developed on the cloth?



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15. Answer the following question in one sentence :

If a plastic rod is rubbed against a woolen cloth, what kind of electric charge is developed on the plastic rod?



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16. Answer the following question in one sentence :

Who named the electric charges as positive charge (+) and negative charge (-) ?



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17. Answer the following question in one sentence

What is battery?



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18. Answer the following question in one sentence :

How is the word electricity derived ?



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19. Answer the following question in one sentence :

Name five things on which electric charge is produced by friction ?



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20. Give scientific reasons for the following

It is not safe to go out with an umbrella where there is a heavy rain lightning and thunder



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21. Answer the following question in short :

Why is lightning not seen every day during the rainy season?



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22. Answer the following question in short :

Explain : Frictional electricity and static electricity.



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23. Many organic substances are negatively charged e.g., acetic acid, while others are positively charged e.g., ammonium ion. An amino acid under certain conditions would have both positive and negative charges

simultaneously in the same molecule. Such a form of amino acid is called.



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24. Answer the following question in short :

Explain why the repulsion is used as a test for identifying an electrically charged object ?



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25. Answer the following question in short :

what are the characteristics of a static electric charge?



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26. Answer the following question in short :

Explain in brief the flash of lightning and lightening strike.



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27. Answer the following question:

What is transcription?



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28. Describe the construction and working of compound microscope.



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29. Answer the following question in one sentence :

In the lightning conductor, what provision is made for spreading the electricity into the ground ?



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30. Give scientific reasons for the following:

The diverged leaves of a positively charged

gold leaf electroscope collapse if its disc is touched with a charge ebonite rod.



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31. Give scientific reasons for the following:

Small bits of paper are attached by a plastic comb which has been move vigorously through dry hair.



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32. Give scientific reasons for the following:

Dust and other small particles are attached by a plastic comb which has been moved vigorously through dry hair.



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33. Give scientific reasons for the following:

When dry hair is combed vigorously, a crackling sound is produced.



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34. Give scientific reasons for the following:

Experiments on static electricity are not successful during rainy season.



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35. Give scientific reasons for the following:

A metal rod which is to be charged by friction is held by an insulating handle.



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36. If a body is charged by rubbing, its weight



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37. Use your brain power!

Why is coal called ‘black gold’?



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38. Use your brain power!

Can we use leaves of some other metal instead

of gold, in the electroscope? Which properties must that metal have?



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39. Use your brain power!

What kind of damage is caused by a lightning strike ?



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40. Use your brain power!

What measures will you take to prevent the damage caused by lightning?



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41. Use your brain power!

Why is the upper end of the lightning conductor pointed?



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42. Use your brain power!

Why is coal called ‘black gold’?



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43. Answer the following Question:

What do you do when there is thundering and lightning in the sky?



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44. Answer the following Question:

Have you noticed static electricity any time during winter season ? In what actions did you find it ?



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45. Answer the following Question:

Have you noticed static electricity any time during winter season ? In what actions did you find it ?





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46. Answer the following Question:

What do you do when there is thundering and lightning in the sky?



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47. Answer the following orally

What happens if we perform experiments of frictional electricity or static electricity during rainy season ?



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48. Answer the following orally

What was discovered by Thales?



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49. Answer the following in one or two sentences

What is the electronic definition of oxidation and reduction?



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50. Answer the following question orally :

What are Andromeda and Mandakini ?



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