CITY NURSERY AND PRIMARY SCHOOL.

P.7 TOPICAL TEST 2 TERM I 2024.

ELECTRICITY AND MAGNETISM.

NAME: _____

SIGN: _____ DATE: _____

1. What do you understand by the term matter?

_____

2. Name the smallest indivisible particles that form matter.

_____

3. What is electricity?

_____

_____

4. Write down two forms of current electricity.

i) _____

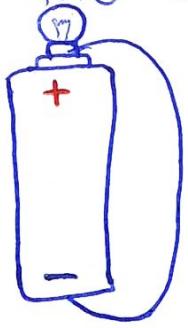
ii) _____

5. State any two dangers of lightning in the environment.

i) _____

ii) _____

6 Use an arrow to show the directional flow of electrons in the diagram below.



7. Which form of current electricity is obtained from geothermal wells.

_____

8. Name the type of energy stored in a dry cell.

9. What is an electrolyte?

10. Give any one example of an electrolyte.

11. State any one difference between primary cells and secondary cells.

12. Write any two circumstances under which a bulb may fail to give out light.

i)

ii)

13. What are conductors of electricity.

14. Mention any two examples of conductors of electricity.

i)

ii)

15. Why is silver not commonly used in production of electric wires yet it is the best conductor of electricity?

16. Give a reason why distilled water is regarded as a poor conductors of electricity.

17. Why are electrical engineers advised to put on rubber gloves when handling electricity?

18. Draw the symbols of the following components of an electric circuit.

Switch	Ammeter	Batteries	Voltmeter

19. Name the non metallic conductor of electricity found in the dry cell.

20. What is an electric circuit?

21. Differentiate between a magnet and magnetism.

22. Mention any two devices that use magnets at home.
i) _____ ii) _____

23. Why is the earth called a natural magnet?

24. How is a magnet useful to a doctor?

25. Name the property of magnets that helps pilots to locate direction of places.

26. Define the term demagnetization.

27. Mention any one example of a natural magnet besides magnetite.

28. Give any one method of determining the polarity of a magnet.

29. Why are plastics regarded as non-magnetic materials?

30. Give a reason why a magnet can not be used to separate iron and steel.

31 a) What are non-magnetic materials?

b) Mention any two examples of non magnetic materials.

i) ii)

32 a) Write e.m.f in full.

b) Musa's radio uses four dry cells. Calculate the amount of voltage used in Musa's radio.

33a) State any three properties of magnets.

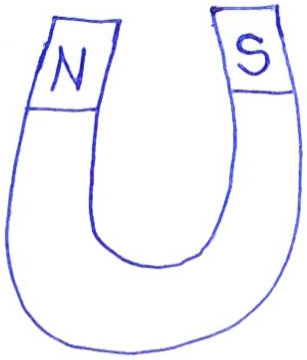
i)

ii)

iii)

b) Name the following permanent magnets drawn below.

i)



34 a) How do we call a magnet obtained from electrical method.

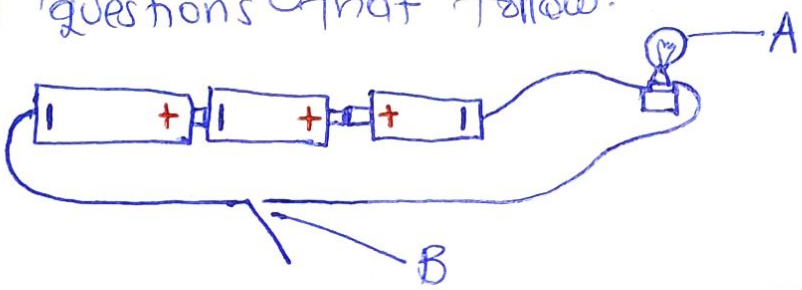
b) Give any one way of increasing the strength of the above mention magnet.

c) Besides electrical method, mention any other two methods of making magnets.

i)

ii)

35. Study the diagram below and use it to answer the questions that follow.



a) State what will happen to part A if part B is closed.

b) Give a reason to support your answer in (a) above.

c) How is part B similar to a fuse in terms of their functions?

36a) What are electric appliances?

b) Mention any two examples of electric appliances.

i) _____ ii) _____

c) Name the energy change that takes place in an electric fan when it is in use.

37 a) Mention any two devices that use electric motors to operate.

i) _____ ii) _____

b) State the principle under which an electric bell works.

c) Which part of an electric bell vibrates to produce sound?

38 a) What is an electric short circuit?

b) Identify any two causes of electric short circuits.

i) _____

ii) _____

E N D.

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