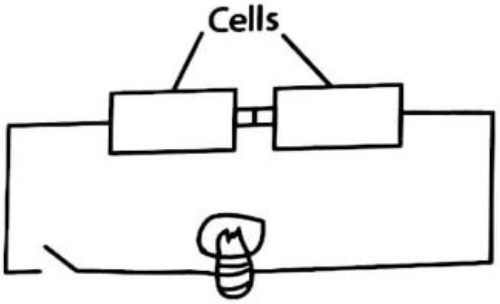
PLE QUESTIONS ON ELECTRICITY FROM 1991-2022

1. **David connected the circuit as shown below. Explain why a new bulb did not light when he put on a switch**



2a). What is the use of a fuse in an electric circuit?

……

b). How does a fuse work?

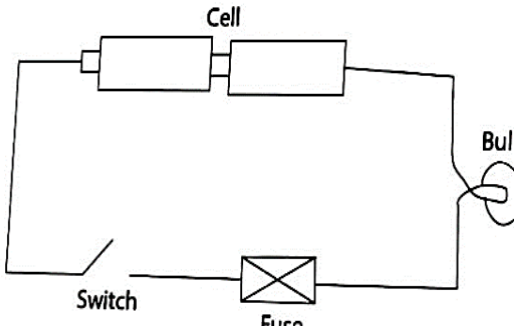
……

c). Give two causes of Short circuit.

i) ……

ii) ……

2). **In the diagram below, when the switch was closed, the bulb lit.**



a) How can you increase the brightness of light in the bulb?

……

b) After a short time, the switch was still on; the light in the bulb went off. State three possible causes for the light going off.

……

3). Why does a Uganda electricity Board worker wear rubber gloves when working on wires carrying electricity?

.....

4). **In the diagram below indicate using an arrow the direction of the flow of electricity**

5). Uganda electricity board generates its electricity at Jinja.

a) How does electricity reach a consumer in Mbale?

.....

b). Give two uses of electricity

i) .....

ii) .....

c) Name the cause of short circuit

.....

6. Give one example how man uses water to produce energy.

.....

7. Why do electricity wires hanging on electric pole sometimes appear loose and other times tight?

.....

8a) What is the use of fuse in a circuit?

.....

b) Give three reasons why a bulb of torch may not give light when switch is on.

i) .....

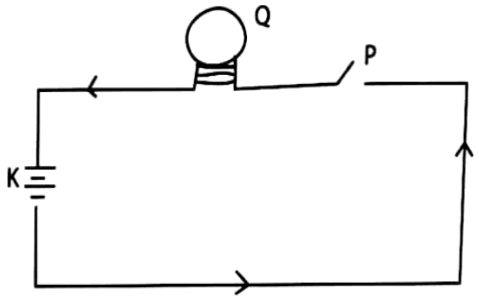
ii).....

iii) .....

9. What type of electricity is obtained by rubbing a plastic material against hair or woolen cloth?

.....

10. **The diagram below shows an electric circuit. Use it to answer questions that follow**



a) Name part K and P

i) K .....

ii) P .....

b) Give the type of energy that is produced at Q when P is closed.

.....

11a) What type of electricity is generated at Jinja.

.....

b) Give any two advantage of solar electricity over the thermal electricity.

i) .....

ii) .....

12a) Mention any one reason why copper wires are commonly used to distribute electricity from one point to another.

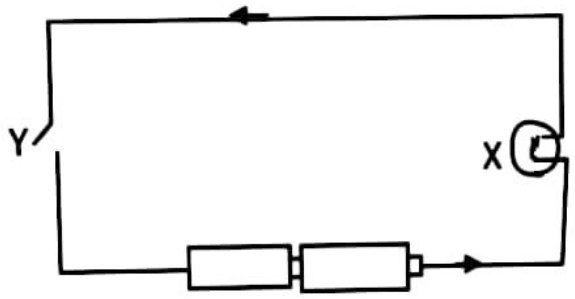
.....

b) Give any one use of each of the following:

(i) Switch……

(ii) a fuse……

13. The diagram below is of an electric circuit. Use it to answer questions that follow.



a) Name the part labeled Y and X in the diagram

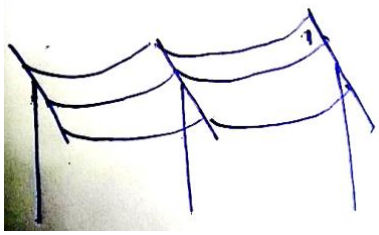
……

b) Apart from light give any one other form of energy produced by the part labeled X when Y is closed.

……

c) Show with arrows the flow of current in the above diagram.

14. **The diagram below shows wooden poles with electricity wire. Use it to answer the question that follows.**



a) State any one reason why the wires are loosely fixed

……

b) What would happen to wires if they were rightly fixed?

……

c) Give one reason why wooden poles are usually used to carry electricity.

……

d) Why are wires placed very high up?

.....

15a) State any one function of each of the following parts in a simple electric circuit

(i) Wire.....

(ii) Battery.....

c) Mention any two causes of a short circuit

i) .....

ii) .....

16.. State one result of two naked wires carrying electric current getting in touch one another.

.....

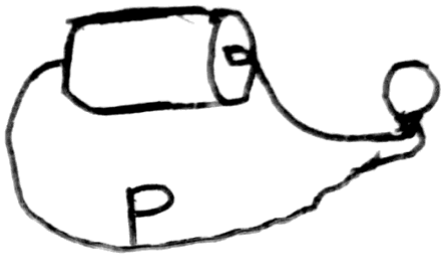
17. Which type of electricity is produced by generator?

.....

18. Name one material used to guard against electric shocks.

.....

The diagram below is of a simple circuit. Use it answer questions 19 and 20



19) Draw an arrow on line P to show direction of the flow of electricity.

20) Apart from light, which other form of energy is produced at A?

.....

21). In which way is a fuse similar to a switch in a simple circuit?

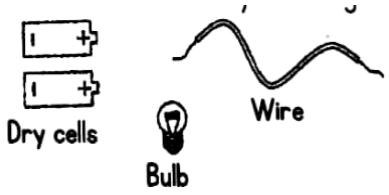
.....

PLE 2012 (55) about electric bell

22. Why do the people installing electricity wear rubber gloves?

.....

23. Arrange the parts of an electric circuit below by drawing to show a complete circuit



24**. The diagram below shows how electricity is produced. Use it to answer questions that follow.**

25. What source of energy is used to produce the electricity?

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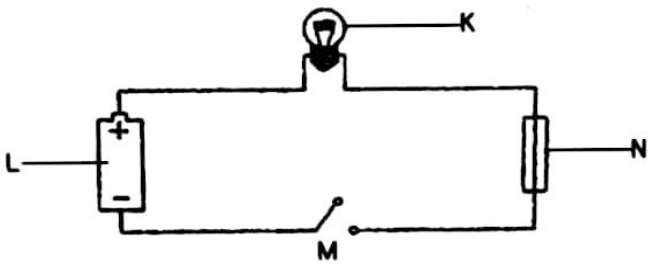
26. **Study the diagram of an electric circuit below and use it to answer questions that follow**



a) Name the pars marked K and N

i) K .....

ii) N .....

b) State the energy change that takes place at L when M is closed.

.....

c) Give any one form of energy produced at K when M is closed.

.....

27. Apart from a flat iron, give one other appliance at home that changes electric energy to heat energy.

.....

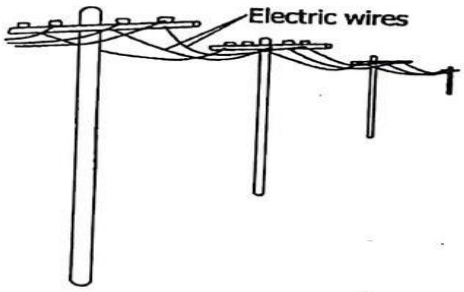
28. What type of electricity is lightning?

.....

29. Why is fuse made of a thin wire?

.....

The diagram below shown electric wires under a certain weather condition. study it and answer questions 30 and 31



31. In which kind of weather do the electric wires appear as shown above?

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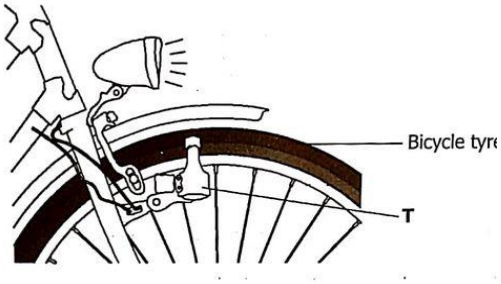
32. Why do the electric wires appear as shown above?

.....

33. Give any one way in which electric current produced by a dynamo can be increased.

.....

34. **The diagram below shows equipment on a bicycle that is used to produce electricity. Study and use it to answer questions that follow**



a) Name the equipment labeled T

.....

b) Give the function of the bicycle tyre in producing electricity.

.....

c) State the energy change that takes in equipment labeled T when it is in use.

.....

d) State one way in which the amount of electricity produced by equipment labeled T can be increased

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