Noah's Ark Independent Primary School

Subject: NS&T	Examiner: Moyo, S.
Type: End of 3rd Term Assmt.	Moderator: Rwizi, A.
Date: 5 September 2019	Grade: 6
Marks: 60 Marks	Time: 1 hr 30 minutes

Name: _____

Instructions:

Answer ALL the questions in the spaces provided.

Write neatly and legibly

Carefully read all questions before answering

1. Match column A with column B. (4)

Column A	Answer	Column B
The movement of electric charges through a conductor.		a) Electrical insulter
A system for transferring electrical energy from one place to another.		b) Electric circuit
A material that electricity can o through		c) Electric current
A material that does not allow electricity to go through.		d) Electrical conductor.

2. State whether the following statement is true or false. If false correct it. (4)

2.1 Electronic buzzers convert electrical energy into movement energy.

_____

_____

2.2 Circuit diagrams are drawn using standard or universal symbols for electrical components.

_____

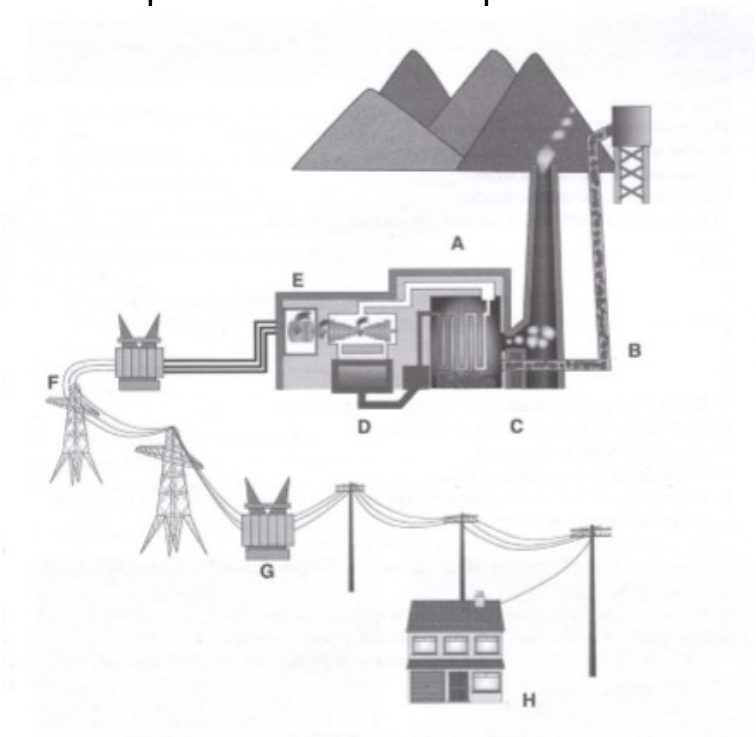
_____

2.3 A turbine is a machine with blades that rotate because of steam, running water or moving air and produces electricity.

_____

_____

3. The diagram below shows how electricity is produced in a coal-burning power station. Provide labels for each part of the station labelled A-H and explain what takes place there. (8)



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_____

4. Why are illegal connections dangerous? (2)

_____

_____

5. Suggest why do people sometimes use illegal connection? (2)

_____

6. Write down the word(s) that will complete the sentence correctly. (5)

6.1 A complete circuit pathway through which electrical current flows is called a _____ circuit.

6.2 A natural fuel that forms from dead animals and plants over millions of years is called a _____.

6.3 Energy sources that are being used much faster than they take to form are called _____ energy sources.

6.4 The network of electricity cables that transport electricity from the power station to our homes is called the _____ .

6.5 Electricity that generates from sunlight.

_____.

7. Describe how fossil fuels are formed. (4)

_____

_____

_____

_____

8. Draw and label a closed electrical circuit. (7)

Your circuit must contain the following:

A battery made of three cells

Conducting wires

2 light bulbs

A switch

9. Predict what would happen if another bulb was added to the circuit. (2)

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10. Suggest what would happen to the three bulbs if one of the cells was removed from the circuit. (2)

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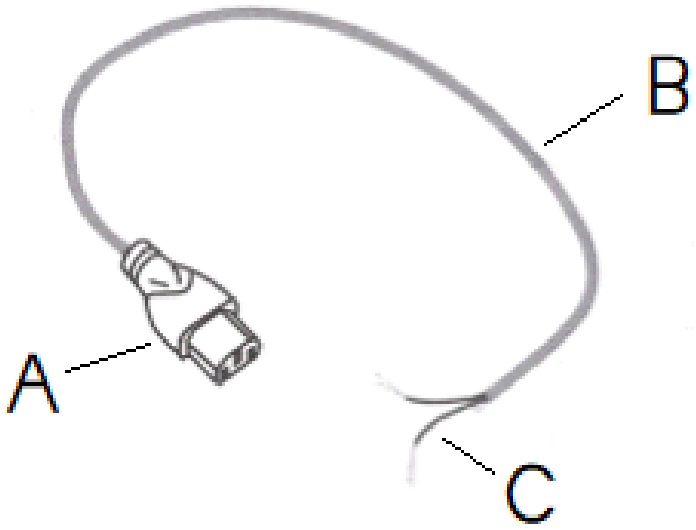
11. Look at the picture of this electric cord. Complete the labels by writing the name of the material of which that part of the cord is made from and say whether or not it is an insulator or a conductor. (6)



Letter	Material	Insulator / Conductor
A		
B		
C		

12. List three ways of saving electricity. (3)

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13. Point out three things that an electrician uses to protect himself from an electric shock. (3)

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14. Critically justify why electricians are the only people who should repair damaged wiring in a household circuit. (4)

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15. Your friends argue that the government should let people use electricity for free but you are saying electricity should be paid for. Motivate your argument. (1)

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16. There are calls of moving away from using coal to generate electricity because of its disadvantages. Point out at least three of the disadvantages. (3)

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_____

_____

_____ / 60 Marks