DREAM AFRICA SCHOOL - SEETA

PRIMARY SEVEN REVISION TEST ON ELECTRICITY 2020

NAME: …… INDEX NO:…….

SECTION A:

1a) What do you understand by the term electricity?

_____

_____

b) Identify the two types of electricity.

(i) _____ (ii) _____

c) What type of electricity is commonly got from the sun?

_____

d) What type of electricity is commonly used in urban areas in Uganda?

_____

2a) Cite any four ways how electricity is useful in our daily lives.

_____

_____

_____

_____

b) Give one disadvantage of using electricity.

_____

3a) Differentiate between static electricity and current electricity.

_____

_____

b) Cite any two examples of static electricity in nature.

(i) _____

(ii) _____

c) How is lightning caused?

_____

3d) Identify one advantage of lightning in nature.

_____

4a) Briefly explain the following terms as used in electricity.

Electrons: _____

An atom: _____

Alternating Current electricity(AC)

_____

Direct Current electricity (DC)

_____

b) Using arrows, show the flow of current in the diagram below.

5a) Define the term short circuits.

_____

_____

b) Cite out any three possible causes of short circuits in electric cables.

(i) _____

(ii) _____

(iii) _____

c) How are short circuits dangerous?

_____

d) Identify any one way how short circuits can be prevented.

_____

6a) How are insulators different from conductors of electricity?

_____

_____

6b) Give any two examples of insulators.

(i) _____ (ii) _____

c) How are insulators important in our daily life?

_____

d) Why is wet wood said to be a good conductor of electricity?

_____

_____

7a) What do you mean by the term electric cells?

_____

b) Differentiate between primary cells and secondary cells.

_____

_____

c) State any two examples of primary cells.

(i) _____(ii) _____

d) Define the term electrolyte.

_____

8. In one sentence, describe the following terms as used in electricity.

a) Hydro-electricity: _____

_____

b) Thermal electricity: _____

_____

c) Atomic electricity: _____

_____

d) Solar electricity: _____

_____

e) Geo-thermal electricity: _____

_____

SECTION B:

9a) What is an electric circuit?

_____

_____

b) Study the diagram below of an electric circuit and answer the questions that follow.

Name the parts marked with letters:

A _____ (iv) B - _____

C- _____ (v) D - _____

E - _____

c) How is part B useful in the above diagram?

_____

d) Which form of energy is stored in structures marked with letter C?

_____

e) In the diagram above, why would the bulb fail to light if E was closed?

_____

_____

f) State any one form of energy got when part A is able to perform its function.

_____

_____

10. The diagram below shows a simple cell. Study it and use it to answer the questions that follow.

10a) Name the metals marked M and Z.

M _____ (ii) Z - _____

b) Which word is used to describe the substance at L?

_____

c) Name any two changes that take place in the bulb.

(i) _____

(ii) _____

d) Name the substance marked L.

_____

e) State the two factors that lead a simple cell not to be efficient.

(i) _____

(ii) _____

f) Cite any two disadvantages of a simple cell.

(i) _____

(ii) _____

11a) Identify any five components of an electric torch.

(i) _____(ii) _____ (iii) _____

(iv) _____ (v) _____

b) How is a reflector important in an electric torch?

_____

_____

c) Paul had a torch with dry cells in it, but the torch failed to produce light. State any three possible conditions which might have led the torch **not** to function properly.

_____

_____

_____

d) What is the function of a switch on an electric torch?

_____

_____

12. The diagram below is of a dry cell. Use it to answer the questions that follow.

a) Name the parts:

A - _____ (ii) B - _____

b) State the form of energy stored in a dry cell.

_____

c) What is the voltage of a new dry cell?

_____

d) How is part labeled B useful in a dry cell?

_____

e) What are the units of measuring voltage of a dry cell?

_____

f) Suggest one cause of dry cells losing their energy.

_____

g) Juliet's radio uses 8 dry cells. How many volts are needed if she is to use to listen to news? (3mks)

_____

_____

13a) Identify the two types of plugs used in most electric equipment.

_____

_____

b) Give any three devices where three pin plugs are used.

(i) _____ (ii) _____

(iii) _____

c) How do the following devices produce electricity:

(i) A Dynamo? _____

(ii) A Generator? _____

d) State three reasons how one can make a generator to produce more electricity.

(i) _____

(ii) _____

(iii) _____

14. The diagram below is of an electric bulb. Study it and answer the questions that follow:

a) Name the parts marked:

A - _____ (iii) C - _____

B - _____

b) Why is part marked A coiled?

_____

_____

c) Which material is the coiled part made of?

_____

d) Identify the mineral in which the above material named in part c above is got from.

_____

e) Of what importance are the lead wires in an electric bulb?

_____

_____

f) Identify **two** gases which are commonly used in an electric bulb.

(i) _____ (ii) _____

g) Give **one** reason why the glass of a bulb is transparent.

_____

_____

THE END

****** GOODLUCK******