

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.
