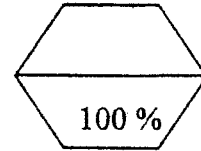


ALLIANCE HIGH SCHOOL
TERM I ELECTRICITY
FORM 1 CAT ONE
TIME: 2hrs



Date of CAT;.....
Date of returning scripts;.....
Date of revising scripts;.....

NAME;.....**CLASS;**.....**ADMNO;**.....

1.(a) State **two** reasons why we need to observe safety precautions in the workshop; [2marks]

(b) Explain the term first aid. [1mark]

(c) State the **four** fields of electrical engineering. [4marks]

(d) Draw a circuit consisting of a source, load, control and conductors. State **one** function of each component. [4marks]

2. (a) List **five** job groups and classify them in order of seniority.

[5marks]

(b) State **two** duties for each of the job groups;

[10marks]

(c) State the procedure to be followed in case of fire in a building.

[2marks]

(d) List **nine** safety precautions that need to be observed in a work shop.

[9marks]

3. (a) State **two** entry requirements to train in each of the **five** job groups.

[10marks]

(b) Draw the academic flow chart showing the progression of a student from the time they sit for KCPE exam to university.

[4marks]

(c) List **six** dressing items that should be worn when working in the workshop. [3marks]

(d) List **three** precautions to be observed to prevent accidents from each of the following; [3marks]

(i) Underground cables,

(ii) Frayed cables of appliances.

4. (a) State **nine** safety precautions to be observed on movement and conduct in the work shop. [9marks]

(b) State **three** ways of storing tools. [3marks]

(c) State **two** safety precautions to be observed when handling or storing each of the following. [6marks]

(iii) Corrosive materials,

(iv) Tools,

(v) Equipment,

(vi) Combustible materials,

(vii) Non-combustible materials,

(viii) Power packs,

(d) List **three** organizations where one can find employment in each of **four** fields of electricity named above. [6marks]

5. (a) Name **four** methods used to control fire. [4marks]

(b) Name **two** types of each of the following; [2marks]
(i) Conductor materials,

(ii) Insulator materials.

(c) List the **three** functions of performing first aid.

[3marks]

6. (a) State **two** causes of each of the following;

[4marks]

(i) Electrical fires,

(ii) Electric shock,

(b) List **three** safety precautions of preventing accidents from lightening.

[3marks]

(c) State **three** safety precautions to prevent accidents from overhead power lines.

[3marks]

END