GATITU MIXED SECONDARY SCHOOL

CHEMISTRY FORM 1 END OF TERM 2 2013 EXAM

FORM 1 Chemistry

1. The following diagram represents a non-luminous flame of the Bunsen burner.

A

B

C

(a)Name the parts of the flame labeled A, B and C. (3mks)

A-

B-

C-

(b)Which of the parts in (a) above is the hottest? (1mk)

(c)A non-luminous flame is preferred for heating. Explain (1mk).

(d (i))Name the other type of flame produced by a Bunsen burner. (1mk)

(ii)Under what conditions does the Bunsen burner produce the flame you have named in (d) (i)? (1mk)

2 The diagram below shows the relationship between the physical states of matter. Study it and answer the questions that follow.

**S**

R V

GAS

LIQUID

**SOLID**

U W

**T**

(a) Identify the processes; (4mks)

R-

V-

W-

U-

(b)Name two substances which can undergo the process represented by S and T. (1mk)

3 Explain why most laboratory apparatus are made of glass. (3mks)

4(a) How can you separate a mixture of sand and common salt in the laboratory? (5mks)

(b)State the method that can be used to separate a mixture of common salt and iodine. (1mk)

5 A form one student in a certain school in Gatundu district carried out an experiment to separate the components of the extract from green leaves. He presented his observation in form of a diagram as shown below.

Ring A

Ring B

Spot of extract

(a)Name the solvent used in this experiment. (1mk)

(b)Give the colours of ring A and ring B. What are the pigments in each? (2mks)

(c)How do the pigments separate? (4mks)

(d)Name the above method of separation. (1mk)

6 (a) What is matter? (1mk)

(b)The diagrams below represent the particles of matter. Which particles represent solid, liquid or gas? (3mks)

**I** **II** **III**

7 The set up below represent the apparatus used to separate a mixture of two miscible liquids C and D whose boiling points are 80OC and 110OC respectively.

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(i) Name A and B. (2mks)

A-

B-

(ii)What is the purpose of the thermometer? (1mk)

(iii)Which liquid was collected first? Explain. (2mks)

(iv) Explain the role played by the fractionating column. (1mk)

(v)State the role of the glass beads in the fractionating column .(1mk)