

NAME.....ADM. NO.....CLASS.....

GATITU GIRLS' SECONDARY SCHOOL P.O. BOX 327- 01030 GATUNDU

END OF TERM TWO EXAMINATION YEAR 2016

CHEMISTRY FORM ONE

INSTRUCTIONS

1. Write your name ,class and admission no . in the spaces provided above
2. Answer all the questions in the spaces provided in the question paper
3. Any act of cheating will render Your examination nullified

QUESTIONS.

1. What is chemistry?

(1mk)

2. State two importance of learning Chemistry

(2mks)

3. Name the apparatus used to measure the following in the laboratory:

a) Volume

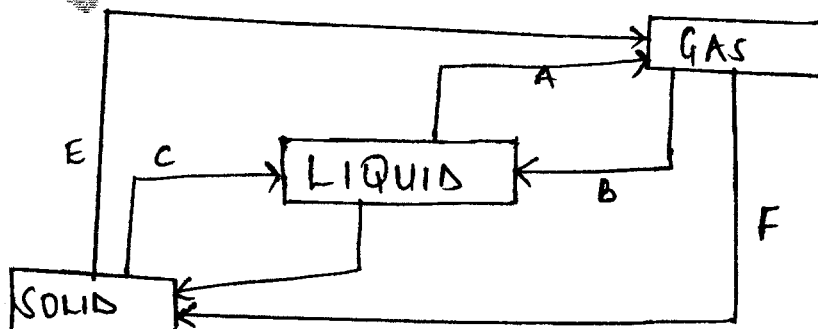
b) Temperature

c) Mass

d) Time

(4mks)

4. The following diagram shows the effects of heat on physical states of substances .



i) Identify the process represented by :

A

B

C

D

E

(5mks)

ii) Identify two examples of substances that undergo process E when heated. (2mks)

5. State the method that can be used to separate the constituents of the following mixtures :

i) Kerosene and water

ii) Sand and iron fillings

iii) Ethanol and water

iv) Aluminium chloride and calcium chloride

(4mks)

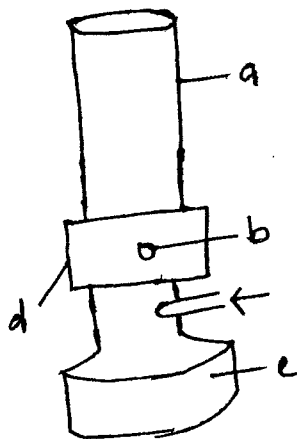
6. Briefly explain how can separate the mixture of sand and (sodium chloride) common salt (5mks)

7. State five safety laboratory rules

(5mks)

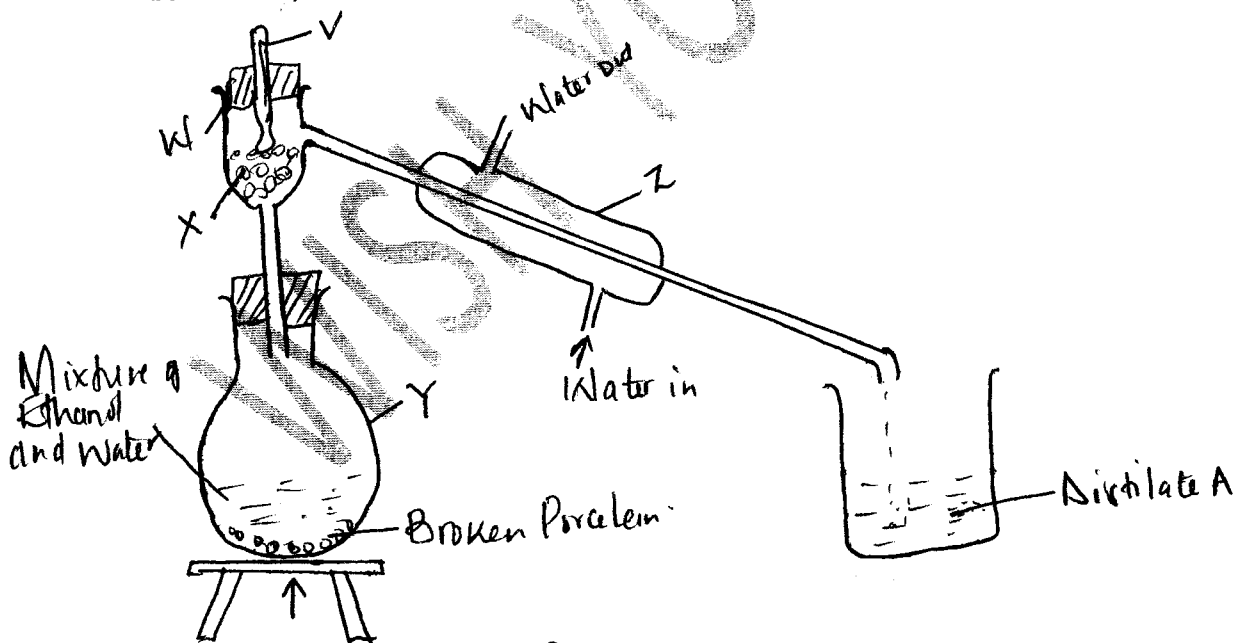
8. Name the parts of the Bunsen burner labeled a to e.

(5mks)



- a \_\_\_\_\_
- b \_\_\_\_\_
- c \_\_\_\_\_
- d \_\_\_\_\_
- e \_\_\_\_\_

9. A mixture of water and ethanol can be separated by Fractional Distillation as shown in the diagram below. Study it and answer the questions that follow.



a) What is fractional distillation?

(2mks)

b) Identify

i) V

ii) W

iii) X

iv) Y

v) Z

vi) Distillate A

(6mks)

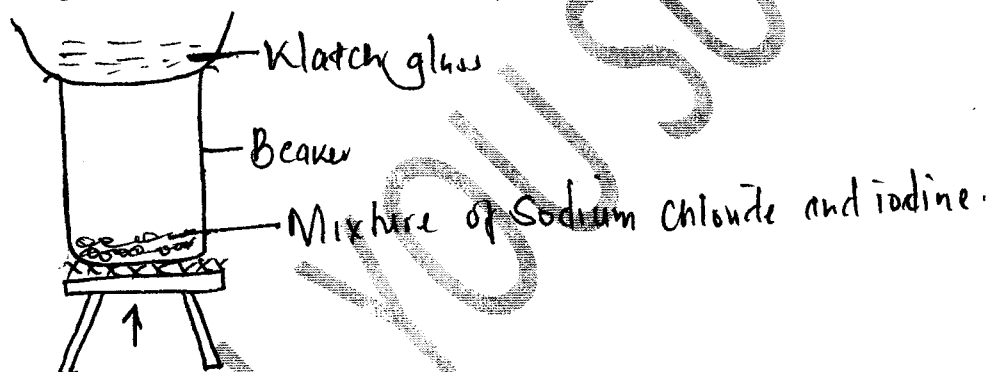
c) State the functions the following

(2mks)

v

w

10. The diagram below shows a method to separate a mixture



a) Name the method of separation represented in the diagram above

(1mk)

b) State two observations that were made during the experiment.

(2mks)

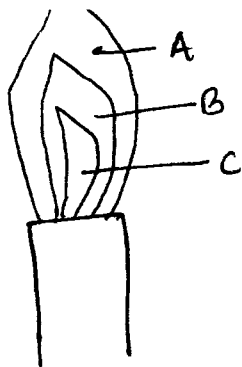
c) Name the substance that remains in the beaker

(1mk)

d) Name the substance that collects underside the watch glass in the beaker

(1mk)

11. A Bunsen burner produces two types of flame depending on the amount of air allowed into the chimney. The diagram below shows one type of flame produced. Use it to answer questions that follow.



- i) Name the type of flame shown above (1mk)
- ii) Name the parts labeled
- A
- B
- C (3mks)
- iii) Give two reasons why the above flame is recommended for heating in the laboratory (2mks)

12. Differentiate between

- i) Filtrate and distillate (2mks)
- ii) Sublimate and residue (2mks)
- iii) Homogenous and heterogeneous mixture (2mks)

13. i) Define chromatography? (2mks)

ii) State two applications of chromatography. (2mks)

iii) State any two factors that influence the spreading of dye in the chromatogram (2mks)

14. Explain the difference in solid ,liquid and gaseous state using the theoretical model of matter in terms of kinetic theory (4mks)

WISH YOU SUCCESS

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GOOD LUCK FROM CHEMISTRY DEPARTMENT