GATITU MIXED SECONDARY SCHOOL

END OF TERM ONE EXAM CAT 1 2015

FORM ONE

CHEMISTRY

NAME…………………………………………………………. ADM NO: ………….CLASS: …………

INSTRUCTIONS

* ***Write your name and admission number in the spaces provided above.***
* ***Answer all the questions in the spaces provided***

1. What is chemistry? (2 marks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………....

1. a) Name the two types of flames produced by the Bunsen burner. (2 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….... b) Which of the two flames should be used for heating purposes in the laboratory? Give a reason why. (2 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….... c) Give FOUR differences between the two flames named in 1(a) above. (4 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Outline five roles of chemistry in the society (5 marks)
2. ……………………………………………………………………………………………………………………………………………………………………………………
3. ……………………………………………………………………………………………………………………………………………………………………………………
4. ……………………………………………………………………………………………………………………………………………………………………………………
5. ……………………………………………………………………………………………………………………………………………………………………………………
6. ……………………………………………………………………………………………………………………………………………………………………………………
7. Identify the following apparatus and state their uses. (8 marks)



|  |  |
| --- | --- |
| c)  d) | **Name**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**    **Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Use** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

1. Give three reasons why laboratory apparatus are made of glass (3 marks)
2. ……………………………………………………………………………………………………………………………………………………………………………………
3. ……………………………………………………………………………………………………………………………………………………………………………………
4. ……………………………………………………………………………………………………………………………………………………………………………………
5. a) What is matter? (1 mark)

………………………………………………………………………………………………………………………………………………………………………………………………

b) State the three states of matter. (3 marks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. i) What is a mixture? Give three examples of mixtures (4 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

ii) List any three methods used to separate mixtures. (3 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

iii) Name the methods by which the following mixtures could be separated (4 marks)

1. Kerosene and water

………………………………………………………………………………………………………………………………………………………………………………………………

1. Iron fillings from sulphur powder.

……………………………………………………………………………………………………………………………………………………………………………………………....

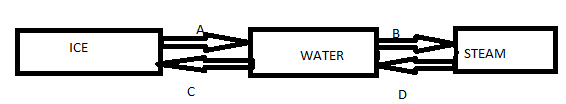
1. Ethanol from a solution containing a mixture of alcohols.

………………………………………………………………………………………………………………………………………………………………………………………………

1. Pure water from sea water.

………………………………………………………………………………………………………………………………………………………………………………………………

1. The figure below shows the effect of temperature on ice. Study it and use it to answer the questions that follow.



1. Name the processes labeled A, B, C and D (4 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Name the process where ice changes directly to steam without undergoing any liquid state.(1 mk)

………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give four substances that undergo the process named in (b) above (4 marks)
2. ……………………………………………………………………………………………………………………………………………………………………………………………..
3. ………………………………………………………………………………………………………………………………………………………………………………………………
4. ……………………………………………………………………………………………………………………………………………………………………………………………...
5. ……………………………………………………………………………………………………………………………………………………………………………………………..