

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

GATITU GIRLS' SECONDARY SCHOOL

TERM 2 MID TERM EXAMINATION YEAR 2016

CHEMISTRY FORM ONE

INSTRUCTIONS

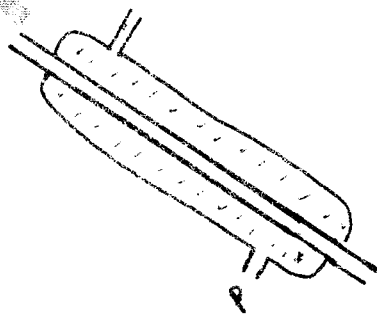
1. Write your name, admission number and class in the spaces provided above

2. Answer ALL the questions

1.a) Name the apparatus used to measure accurate volumes in the laboratory. (4mks)

b) State how the above apparatus can be updated to measure accurate volume. (2mks)

2.a) Name the apparatus drawn below and give its use



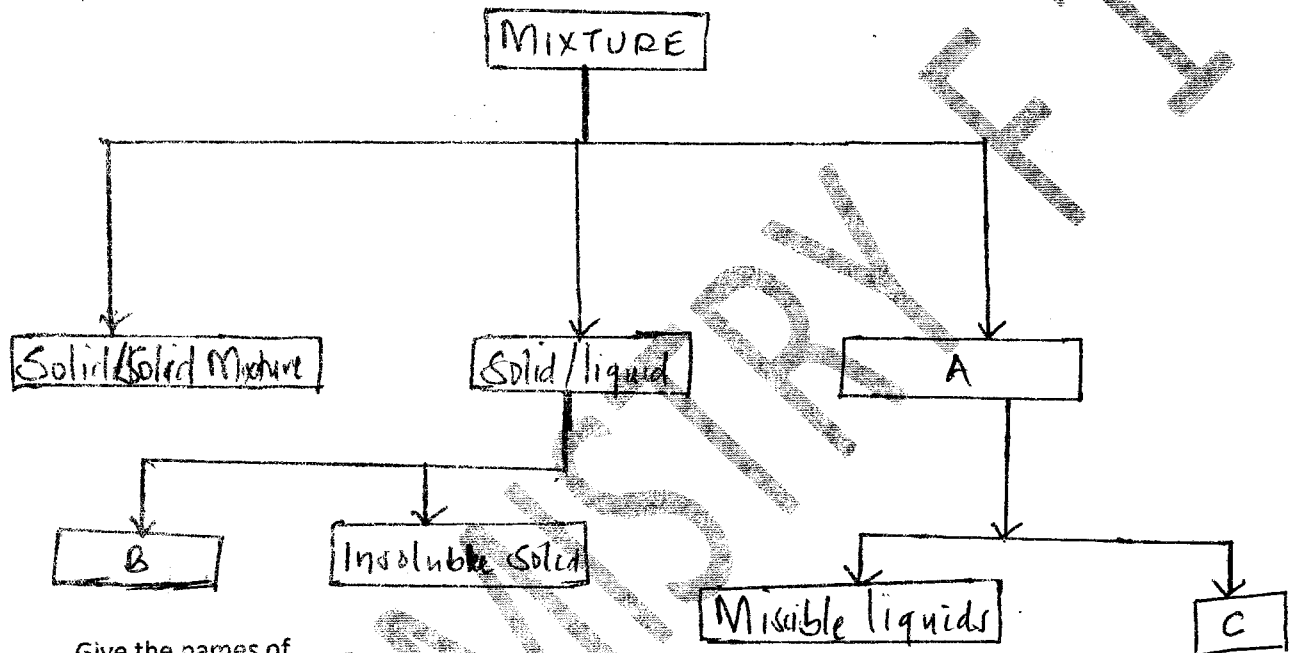
Name.....(1mk)

Use.....
..... (1mk)

b) What happens at point P? (1mk)

3.a) What is a mixture? (2mks)

b) Study the diagram below and answer the questions that follow



Give the names of

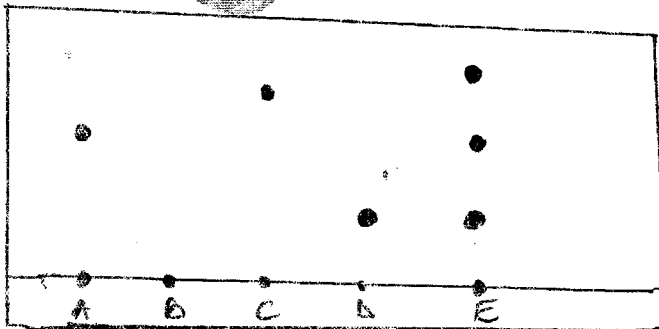
A.....

B.....

C.....

(3mks)

4. The diagram below shows chromatograms for five different dyes



a) Name the technique used to separate dyes

(1mk)

b) What conditions are required to separate the chromatogram present in dye?
(2mks)

C.(i)What is meant by solvent front ?

(2mks)

(ii)Indicate the position of the solvent on the diagram

(1mk)

d)Name the dyes present in E

(1 1/2mks)

e) Which dye is insoluble ?

(1/2mk)

f) Which dye is most soluble ? Explain

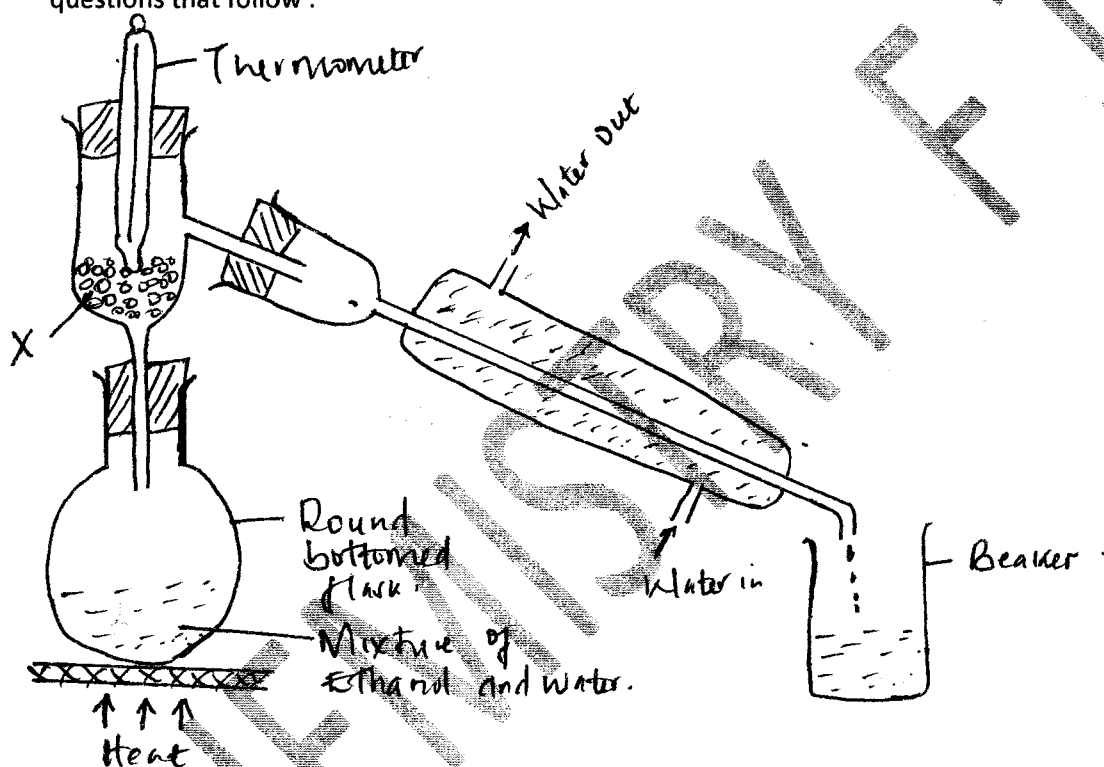
(2mks)

Give the name of the :

a) Process taking place between t_1 and t_2 (1mk)

b) Energy change that occurs between t_3 and t_4 (1mk)

7. The set up below was used to separate a mixture of ethanol and water. Study it and answer the questions that follow.



a) State the function of X (1mk)

b) What is the purpose of the thermometer (1mk)

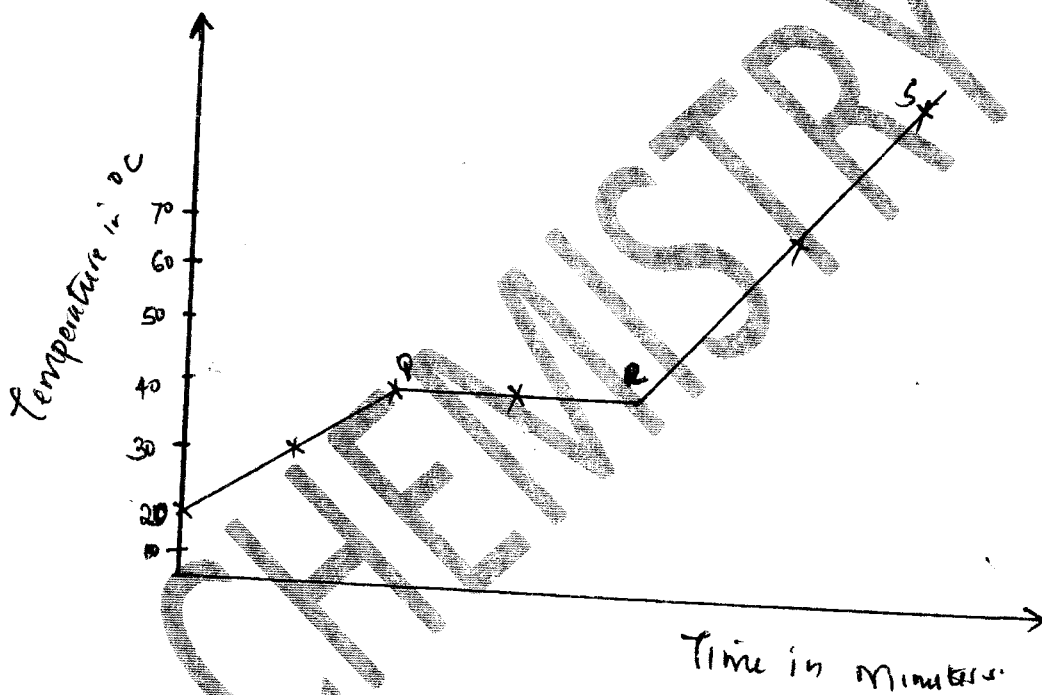
c) Which liquid will collect first in the beaker? (1mk)

8. Explain how you would obtain pure ammonium chloride from a mixture of sodium chloride and ammonium chloride. (3mks)

9) The graph below shows the shape of the curve obtained by a student when solid X was heated to boiling

a.i) Determine the melting point of solid X. (1mk)

ii) What do portions of PQ, QR and RS represent (2mks)



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GOOD LUCK FROM CHEMISTRY DEPARTMENT