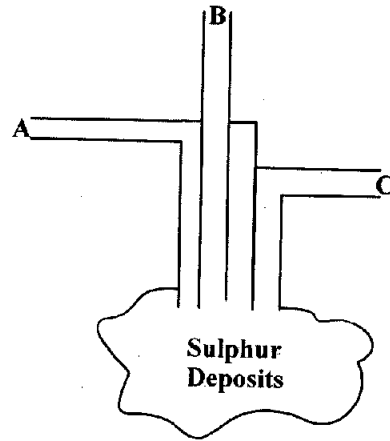


**FORM FOUR CHEMISTRY TUNEP EXAM TERM I 2014**

a) The diagram below represents the Frasch's process for extracting sulphur.



(i) State which substance passes through pipes A , B and C

(3mark)

A

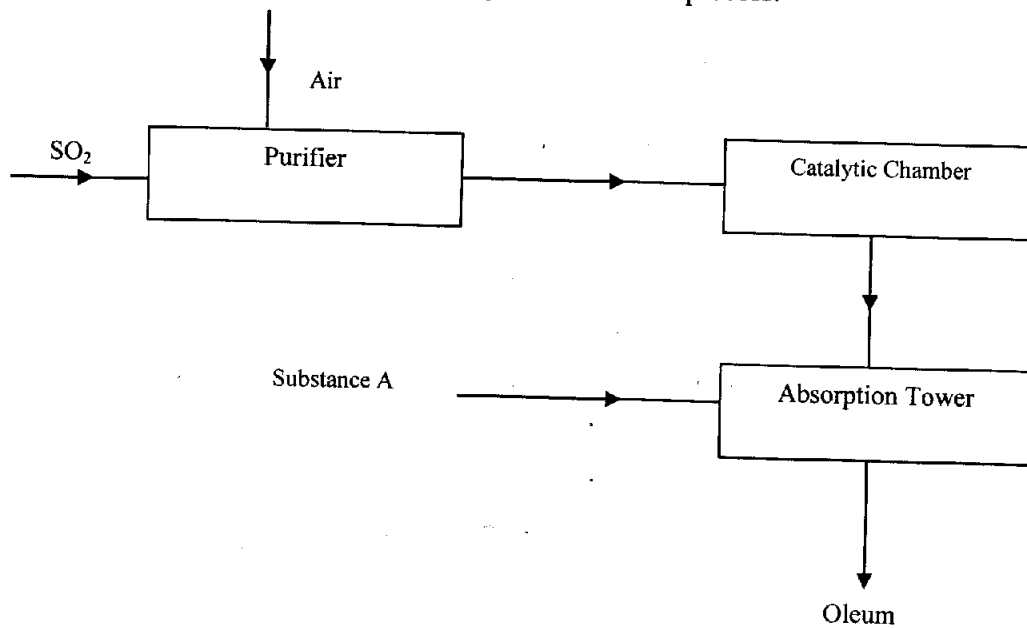
B

C

(ii) What is the purpose of the substance that passes through pipe C?

(1mark)

b) The diagram below shows the main steps of the contact process.



i) State the two main sources of the sulphur (IV) used in this reaction. (2mark)

Platinum is one of the catalysts that can be used in this process.

I. Name the other catalyst used in this process. (1mark)

II. State the advantages the catalyst you have mentioned in (ii) (I) above has over platinum for use in the contact process. (1mark)

ii) Name substance A. (1mark)

iii) Write down the equation for the reaction that takes place in the absorption tower. (1mark)

c) Concentrated sulphuric (VI) acid is added to some cane sugar crystals in a test tube. State and explain what is observed after about 3 minutes. (2marks)

d) Write down the equation for the reaction between zinc powder and

(i) Dilute sulphuric (VI) acid (1mark)

(ii) Concentrated sulphuric (VI) acid (1mark)

(iii) What property of concentrated sulphuric (VI) acid is shown by the reaction in (d) (ii) above? (1mark)