Practice Question Set For A-Level
Subject : Chemistry
Paper-2 Topic: Alkenes

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Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Q1.

This question is about 2-methylbut-1-ene.

(a) Name the mechanism for the reaction of 2-methylbut-1-ene with concentrated sulfuric acid.

Outline the mechanism for this reaction to form the major product.

Name of mechanism _____

Outline of mechanism to form major product

(5)

(b) Draw the structure of the minor product formed in the reaction in part (a)

Explain why this is the minor product.

Structure of minor product

Explanation _____

_____

_____

_____

(3)

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(c) Draw the skeletal formula of a functional group isomer of 2-methylbut-1-ene.

(1)

(d) 2-methylbut-1-ene can form a polymer.

State the type of polymerisation.

Draw the repeating unit for the polymer formed.

Type of polymerisation _____

Repeating unit

(2)
(Total 11 marks)

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Q2.

Alkenes react with bromine (Br_2)

(a) Name and outline the mechanism for the reaction of cyclohexene with Br_2

Name of mechanism _____

Outline of mechanism



(5)

(b) Explain why there is an attraction between a C=C double bond and Br_2

_____

_____

_____

_____

_____

_____

_____

_____

(3)

(c) Draw the skeletal formula of the halogenoalkane formed when buta-1,3-diene (CH_2=CHCH=CH_2) reacts with an excess of Br_2

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(1)
(Total 9 marks)

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