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

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Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 15 Marks **Time : 15 Minutes**

Mark Schemes

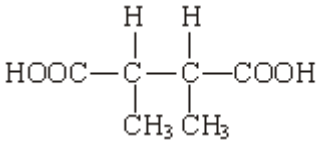
Q1.

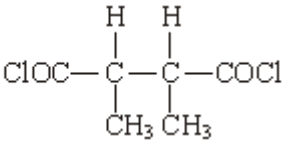
(a) (i) $CH_3CH=CHCH_3$ **1**

Addition or radical (**QoL**) **1**

(ii) $CH_3CH(OH)CH(OH)CH_3$ or with no brackets **1**

butan(e)–2,3–diol or 2,3–butan(e)diol **1**



allow 

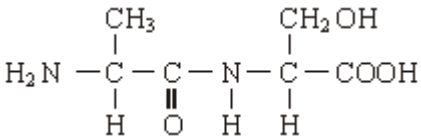
1

2,3–dimethylbutan(e)dioic acid 2,3–dimethylbutan(e)dioyl chloride
ignore –1,4– **1**

condensation (**QoL**) **1**

(iii) NaOH or HCl etc or Na_2CO_3
Allow conc sulphuric/nitric
NOT water nor acidified water nor weak acids **1**

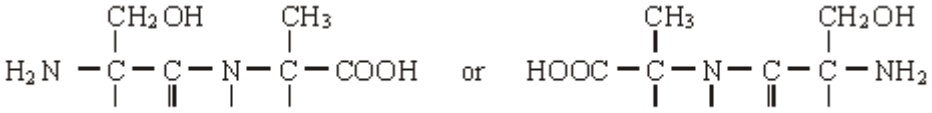
(b) Structure 1



Allow –CONH– and –COHN–
Allow zwitterions
NOT polypeptides/repeating units **1**

Structure 2 either of

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1

(c) (i) $CH_3CH_2CH_2Br$

allow –Cl, –I

1

(ii) CH_3CH_2CN

1

(iii) (nucleophilic) substitution or from $CH_3CH_2CH_2Br$

if reduction written here, no further marks

1

further substitution/reaction occurs or other products are formed

Allow reduction forms only one product

1

one of

$(CH_3CH_2CH_2)_2NH$

$(CH_3CH_2CH_2)_3N$

$(CH_3CH_2CH_2)_4N^+ Br^-$

Allow salts including NH_4Br

Allow HBr

1

[15]

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