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

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Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 18 Marks **Time : 18 Minutes**

Mark Schemes

Q1.

C

Poly(propene)

[1]

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Q2.

A

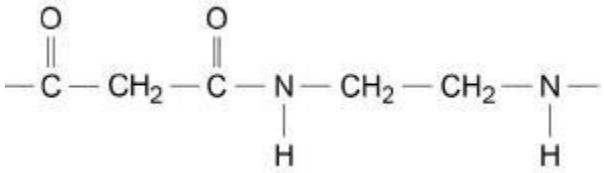
Kevlar

[1]

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Q3.

D



[1]

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Q4.

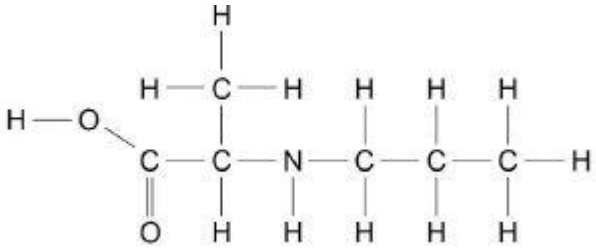
(a) One circled C atom only – The C attached to CH_3/C=O/ H and NH

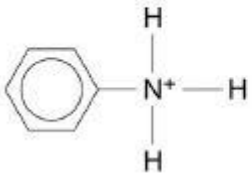
1

(b) Two ticks only for amine and amide

1

(c)

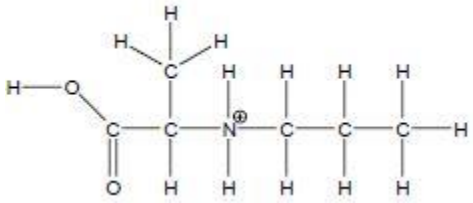




M1 *for choosing the correct bond to hydrolyse*

M2 *and* ***M3*** *for the correct structures of the products*

Allow protonated amino acid for M2



Allow $C_6H_5NH_3^+$ *or + outside a square bracket*

3

(d) **M1** Enzyme has an <u>active site</u>

1

M2

The G-Enantiomer / Enzyme has the correct stereo chemistry / stereospecific

Or

The G-Enantiomer / Enzyme has the complementary shape

For M2 allow opposite argument for F-Enantiomer

1

[7]

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Q5.

A

poly(alkene)

[1]

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Q6.

A

[1]

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Q7.

(a) 4 peaks

1

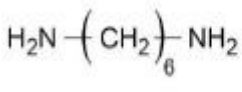
Triplet

1

Two H on adjacent C

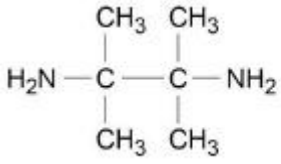
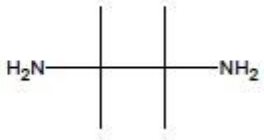
M3 dependent on correct M2

1

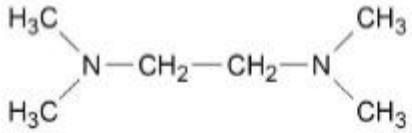
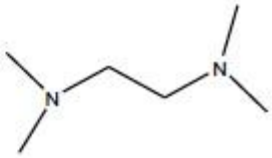
(b)  or 

Not –C_6H_{12}–

1

(c)  or 

1

(d)  or 

Not –C_2H_4–

1

[6]

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