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

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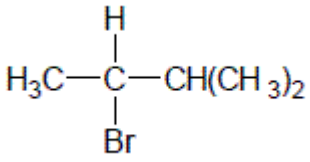
Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

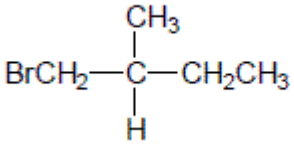
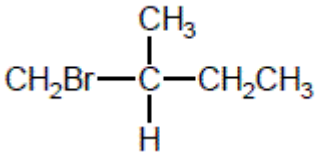
Mark Schemes

Q1.

(a) (i)



must be **branched** and chiral

or  or 

not allow C_3H_7
allow C_2H_5 bonded to C either way round

1

(ii) elimination
allow base – elimination
but penalise any other qualification

1

(iii) Z-pent-2-ene or cis-pent-2-ene either Z or cis is necessary
(allow Z-2-pentene or cis-2-pentene)
with or without brackets around Z
with or without hyphens

1

(b) (i) C

1

(ii) A

1

(iii) B

1

(iv) D

1

(c)

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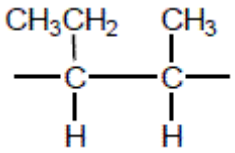


allow C_2H_5 bonded via C or H
must have both trailing bonds
ignore brackets or n

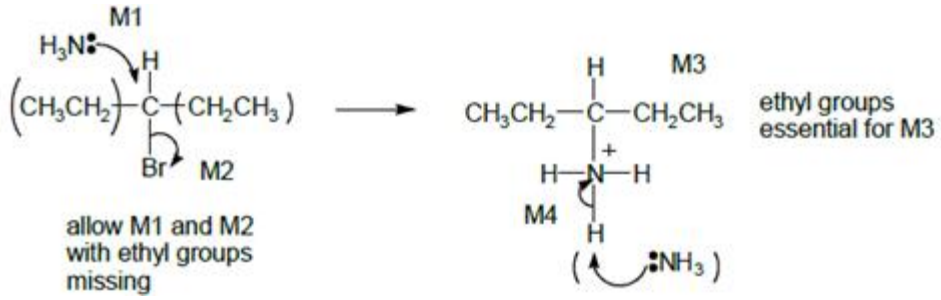
1

addition or radical or step or chain growth

QOL not additional

1

(d) (i)



Allow SN1, i.e M2 first then attack of NH_3 on carbocation.
Allow C_2H_5 in M3 bonded either way
Allow with or without NH_3 to remove H^+ in M4, but lose mark if Br^- used.
ignore δ+ or δ– unless wrong
+ on central C instead of δ + loses M2

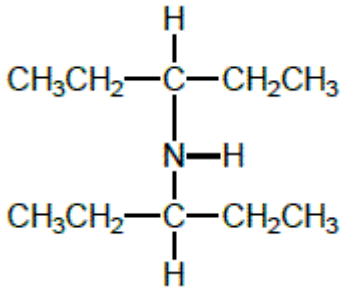
4

(ii) excess NH_3

ignore reflux
allow conc ammonia in sealed tube

1

(iii)

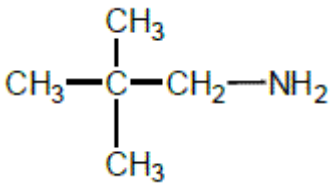


NOT $-C_5H_{11}$

Allow C_2H_5 bonded either way

1

(e) (i)



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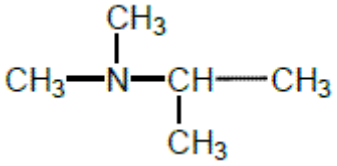
(ii)



NOT $(C_2H_5)_2NCH_3$ which is tertiary with 3 peaks but its spectrum has no doublet.

1

[17]

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