Practice Question Set For A-Level
Subject : Chemistry
Paper-2 Topic: AminoAcids, Proteins & DNA

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Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Mark Schemes

Q1.

(a) *2-chloropropanoic acid* ***(1)***

1

(b) *δ 1.72 Doublet ∴ next to CH* ***(1)***

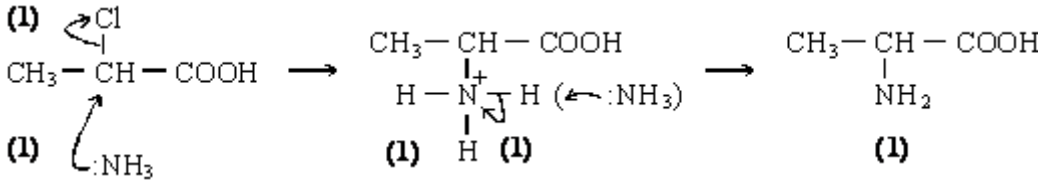
δ 4.44 Quartet ∴ next to CH_3 ***(1)***

2

(c) *Two triplets* ***(1)***

1

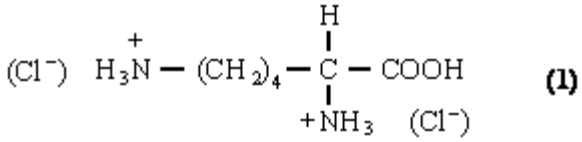
(d)



Allow S_N1

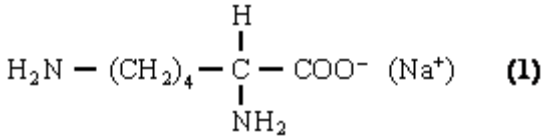
5

(e) *(i)*



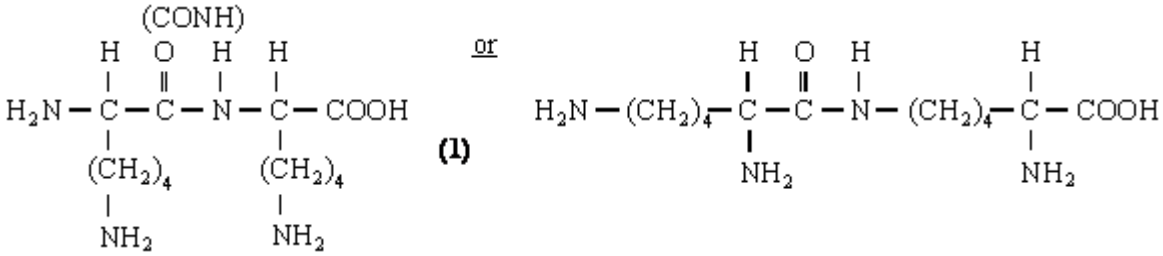
(1)

(ii)



(1)

(iii)



(1)

Or anhydride

3

[12]

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Q2.

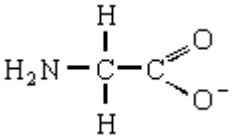
(a) *2-amino(e) propanoic acid* ***(1)***

1

(b) *(i)* *molecules with same structure / structural formula* ***(1)***
but with bonds ***(atoms or groups)*** *arranged differently in space (3D)* ***(1)***

(ii) *Plane polarised light* ***(1)***
Rotated (equally) in opposite directions ***(1)***

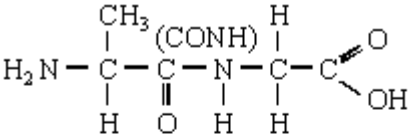
4

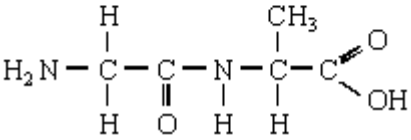
(c)  ***(1)***

allow $H_2NCH_2COO^-$

Penalise NH_2 - and OH - once per paper but CH_3– is allowed

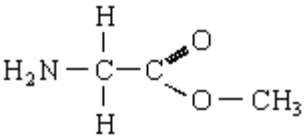
1

 **(1)**

(d)  **(1)**

Not anhydrides; not repeating units

2

(e)  ***(1)***

or $H_2NCH_2COOCH_3$

1

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