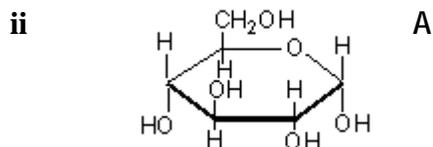


**Answers to practice exam questions for Chapter 9 Carboxylic acid derivatives and polymers**  
**Question 1**

**a i** Condensation polymerisation is the linking of monomers to form a polymer with the elimination of a small molecule, eg. water. **A**

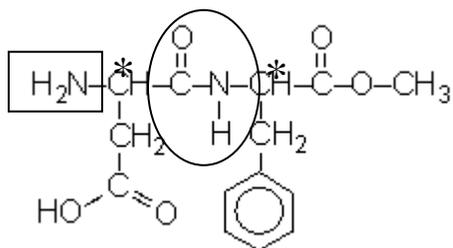
**ii** water **A**

**b i** glucose **A**



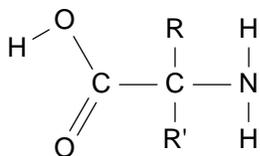
**Question 2**

**i – iii**



**A** = circle on peptide link, **A** = square on  $\text{NH}_2$ , **A** = \* on one of two marked carbon atoms

**iv**

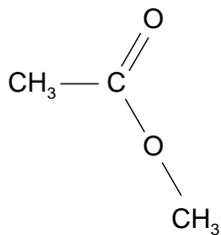


**A** = correct structure (**R** can be **H** or an alkyl group)

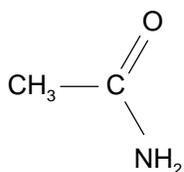
### Question 3

a 1 = methanol

2 =



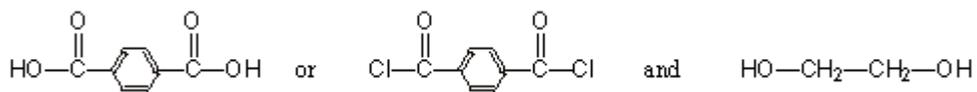
3 =



4 = ethanamide

A = 3 correct, M = all correct

b i



A = 1 correct, M = both correct

ii polyester / condensation polymer A

iii hydrogen chloride if the acid chloride is used or water if the dioic acid is used A