

Answers to examination-style questions

Answers	Marks	Examiner's tips
1 (a) A and structure (of A) is complementary to that of the active site;	1	You must be able to explain how enzymes act.
(b) idea that non-competitive inhibitor (C) binds at a site that is not the active site; binding causes a change in the shape of the active site; substrate is no longer able to bind to the active site;	3	Make sure that you know the different effects of competitive and non-competitive inhibition of enzymes.
(c) (i) peptide;	1	Peptide bonds hold amino acids together. Do not confuse them with disulfide bridges, hydrogen or ionic forces which maintain the secondary, tertiary and quaternary structure of a protein.
(ii) idea that amino acid chain folds/tertiary structure; named bond holding tertiary structure, e.g. ionic/disulfide/hydrogen;	2	Do not confuse peptide bonds with disulfide bridges, hydrogen or ionic forces which maintain the secondary, tertiary and quaternary structure of a protein.
2 (a) (i) substances/molecules have more (kinetic) energy/moving faster (reject vibrate); increased collisions/enzyme substrate complexes formed;	2	Explain changes in rate of reaction in terms of collisions between substrate and enzyme and activation energy. Any factor that increases collisions or lowers the activation energy of the enzyme reaction or reduces the energy needed for the reaction will speed up the reaction.
(ii) causes denaturation/tertiary structure/shape change; hydrogen/ionic bonds break; shape of active site changed; substrate no longer binds/not complementary to active site;	3	
(b) all substrate changed into product/reaction is complete; same amount of product formed; same initial substrate concentration;	2	
3 (a) lowers activation energy; relevant mechanism, e.g. brings molecules close together/reaction in smaller steps/change in charge distribution/proton donation or acceptance/induced fit ensuring substrates brought in correct sequence; including relevant reference to active site;	3	

Nelson Thornes Aqa Biology A2 Answers Chapter 4

Keith Hirst



Nelson Thornes Aqa Biology A2 Answers Chapter 4:

Model Answers AQA Biology A2 2010 Student Workbook Richard Allan,2009-08

Model Answers Aqa Biology A2

2012 Student Workbook Tracey Greenwood,2011-08-01

Aqa (B) A2 Biology Module 4 Keith Hirst,2000-10-15

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