AQA, OCR, Edexcel

A Level

A Level Biology

Nucleic Acids and DNA Replication Answers

Name:



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Total Marks: /25

Answer	Marks
a) i) R C C O O Amino group Carboxyl Group	2 marks
ii) -Variable group -gives each amino acid its specific characteristics	2 marks
b) i) H H O H H H O H H H O H H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H O H H D O H H H O H H D O H H H H	3 marks
ii) Peptide bond iii H H O H H O H H O H H O H H O H H O H H O H H O H H O H	1 mark
	2 marks
iv) A reaction in which water is used to break a bond.	1 mark

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2.		
۷.	a)	
	i)	
	- A chain of amino acids in a specific	
	order	2 marks
	- Joined together by peptide bonds	
	ii)	
	- α helix	2 marks
	- β pleated sheet	
	iii)	
	Disulphide bondsIonic bonds	2 marks
	- Hydrogen bonds	Z IIIdi KS
	- Hydrogen bonus	
	iv)	
	- When two or more polypeptide are	
	joined together to form a protein	2 marks
	v)	
	Any one from:	
	- Haemoglobin	
	-Myoglobin -Antibodies	1 mark
	-Hormones	THIGIK
	Hormones	
	and	
	Any one from:	
	-keratin	
	-collagen	
	-elastin	1 mark
	-troponin	2 man
	-myosin	
3.	N Discount to at	4 1
	i) Biuret test	1 mark
	ii)	
	- sample is mixed with an equal volume	
	of sodium/potassium hydroxide	3 marks
	- a few drops of copper sulphate is added	3 marks
	- Purple colour change	
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