



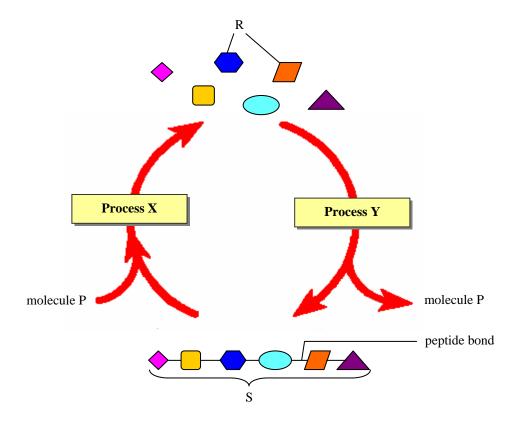


## CHAPTER 4: CHEMICAL COMPOSITION OF THE CELL



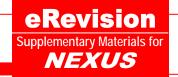
## Paper 2 (Section A – Structured Items)

**1.** The diagram below shows the two important processes in the metabolism of protein in the human body.



(a)	Name the following substances.				
	P:				
	R:				
	S:		[3 marks]		
(b)	i.	Name process X.	[e manas]		
			[1 mark]		

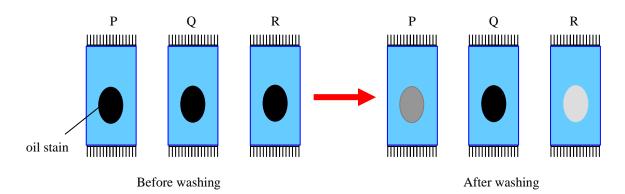
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ii.	Explain how process X is related to P, S and R.	
		[2 marks]
iii.	Name the type of enzyme required in this process.	
		[1 mark]
i.	Name process Y.	
		[1 mark]
ii.	Explain how process Y is related to P, S, and R.	
		[2 marks]
S is	also called the primary structure. Explain the meaning of 'primary structure's	ucture'.
		[2 marks]

2. The diagram below shows three similarly oil-stained towels, P, Q and R, before and after they were washed using the same type of detergent.



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## **NEXUS SPM BIOLOGY** FORMS 4 & 5

Page 108 (Extra Practice)

(a)





	tem	peratures of 15°C, 35°C and 65°C.		
	i.	State the type of enzyme present in the detergent.		
		[1 mark]		
	ii.	Explain your answer in (a) i.		
		[2 marks]		
(b)	i.	State the temperature at which each of the towels was washed.		
		P:		
		Q:		
		R:		
		[3 marks]		
	ii.	Explain your answer in (b) i.		
		[2 marks]		
(c)	The oil stain in R was completely removed during the washing. Give <b>two</b> reasons for this.			
	1.			
	2.			
		[2 marks]		
(d)		What type of enzyme should be added to a detergent for washing blood-stained clothing? Give a reason for your answer.		
		[2 marks]		

The detergent contained a type of enzyme and the three towels were washed at