

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 24

Multiple Choice Questions

1.	(a)		Plants respond to their environment.						
			Select the word from the list below that describes each statement.						
			auxin	gravitropism	photosynthesis	s phototropi	sm	respiration	
		(i)	Plant shoots grow towards the light. photo tropism						
		(ii)	Plant roots grow in the direction of gravity			y gravitropism			[1]
		(iii)	A hormone involved in plant growth responses						[1]
	(b)) Pathogens can cause disease in plants.							[1]
			Which two statements describe plant defences against pathogens? Tick (✓) two boxes.						
			They have a cell wall.						
			They have platelets.						
			They ha	have white blood cells.					
			They pro	oduce antibodies	ce antibodies.				
			They produce antimicrobial substances.						
	(c)	(i)	Some plants grow in waterlogged soil.						[2]
			What type of respiration will take place in root cells growing in waterlogged soil?						[1]
		(ii)	Which two statements, when taken together, explain why plants that grow in waterlogged soil may obtain fewer nutrients from the soil?						
			Tick (✓) two boxes.						
			Active tr	ansport uses ATF	٥.	•	/		
			Active tr	ransport requires	a concentration g	radient.			
			Active tr	ansport needs w	ater.				
			Less AT	P is made in aer	obic respiration.				
			Less ATP is made in anaerobic respiration.						[2]



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