

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 18

Multiple Choice Questions

1.		Bacterial cells are used in a process called genetic engineering to make human insulin.	
	(a)	Define the term 'genetic engineering'	
	(b)	What condition could the insulin produced in this process be used to treat?	[2]
	(c)	Bacteria were first used to produce human insulin in 1978. Before that, pig insulin was used to treat people who did not make their own insulin.	[2]
		Suggest two reasons why it is better to use insulin produced by bacteria rather than pigs.	[2]
	(d)	Insulin is a protein.	[2]
		What is a protein made from?	
		Tick (✓) one box.	
		Amino acids	
		Fatty acids	
		Glucose	

[1]

Total Marks for Question Set 18: 7

Glycerol



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