10 Essential IGCSE Biology Exam Questions

Edexcel 9-1 Paper 1B



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1. a) Define the term diffusion .	(2)
b) Define the term osmosis .	(3)
c) Define the term active transport .	(3)
2. State the ways in which the structure of an artery differs from the structure of a vein.	(3)



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3. Explain how human lung tissue allows efficient gas exchange.	
	(4)
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4. Explain how the structure of the small intestine is adapted for efficient exchange of sub-	
	(4)
5. Describe the stages that are used to genetically modify a bacterium that is able to many	ufacture
insulin.	(5)
	(3)



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Design an investigation to find out if the colour of light affects the amount of fruit produced by plant.	а
	(6)
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7. A student conducted an experiment to find out how the type of light bulb affects the mass of fruit produced by a plant.



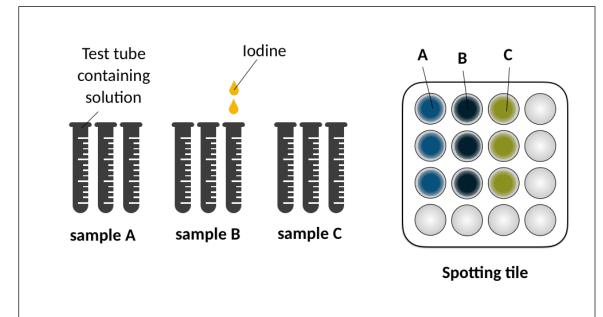
For the investigation name:

a) the <u>dependent</u> variable	(1)
b) the <u>independent</u> variable	(1)
 c) two variables that should be controlled	(2)

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8. A student conducted the following experiment to compare the amount of starch in different liquid food samples:



- 1. Add 3cm³ of the three liquid samples to test tubes.
- 2. Have three repeats for each sample.
- 3. Add 2 drops of iodine solution to each test tube.
- 4. Compare the intensity of the colour change on a spotting tile.

Give 2 reasons why her results were reliable.				
	(2)			

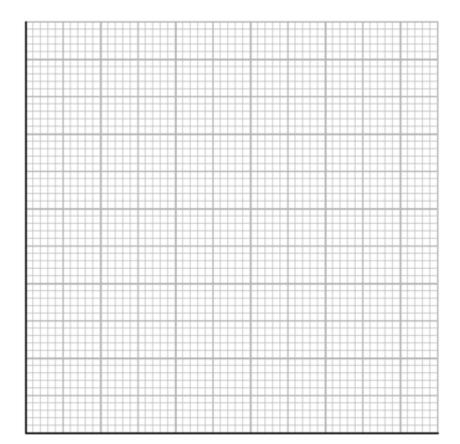




9. Plot the data below in a line graph.

Daily intake of	Average mass	of individual (g)
protein (g)	Species A	Species B
0.2	2	3
0.4	5	3
0.6	6	4
0.8	6	8

(6)





10. Plot the data below in a bar graph.

Lamp Type	Biomass (g / m²)
LED 660	8.8
LED 670	8.4
LED 680	8.1
LED 690	9.0

(5)

