

AQA Biology

GCSE Student book answers

B9 Practice questions

Question	Answers	Extra information	Mark
01.1	(glucose +) oxygen → (carbon dioxide +) water		1
01.2	B / exothermic		1
01.3	C / mitochondrion		1
02	<p>glycogen is broken down into glucose</p> <p>glucose diffuses / moves from liver cells into the blood</p> <p>blood transports dissolved glucose</p> <p>blood diffuses / moves from blood into respiring cells</p>	<p>at least one reference to diffusion must be made for full marks</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>
03	<p>any six from:</p> <p>similarities:</p> <ul style="list-style-type: none"> • both use glucose • both release energy • both exothermic <p>differences:</p> <p>aerobic respiration:</p> <ul style="list-style-type: none"> • uses oxygen (and anaerobic respiration does not) • produces water (and anaerobic respiration does not) • produces carbon dioxide (and anaerobic respiration does not) • releases more energy than anaerobic respiration • occurs in the mitochondria (and in anaerobic respiration it does not) • does not produce lactic acid (and anaerobic respiration does) 	both similarities and differences needed for full marks	6
04.1	fermentation		1
04.2	to prevent oxygen entering		1
04.3	gas syringe		1

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04.4	so the contents would reach the correct temperature		1
04.5	time on y-axis and pH on x-axis; both axes labelled correctly; suitable scales chosen for both axes		1
	points correctly plotted	allow 1 mark for 4 to 6 points correctly plotted allow +/- ½ a square	2
	curve drawn through the points	allow +/- ½ a square	1
04.6	4.1 (cm ³ / min)		1
04.7	no / very little gas produced		1
	(because) enzymes (in yeast cells)		1
	would be denatured		1
04.8	bread making		1
	making alcoholic drinks or brewing beer or making wine		1