

Revision Sheet

IGCSE Biology · Unit 12 Respiration

6 vocabulary items · 32 marks of exam questions (6 questions)

Part 1 · Vocabulary review answer key. Section A wants the exact English spelling.

Question	Answer	Marks
1	protein synthesis	1
2	aerobic respiration	1
3	anaerobic respiration	1
4	alcohol	1
5	lactic acid	1
6	oxygen debt	1

Multiple Choice Answers

Q7: A

Multiple Choice Answers

Q8: A

Multiple Choice Answers

Q9: C

10(a)(i)	aerobic ;
10(a)(ii)	A glucose ; B water ;
10(a)(iii)	diffusion ;
10(b)	<i>any three from:</i> active transport ; cell division ; growth ; maintain body temperature ; muscle contraction ; passage of nerve impulses ; protein synthesis ; AVP ;;
10(c)	<i>any three from:</i> rate of respiration increases then decreases as temperature increases ; peak rate / optimum, at 40°C ; rate / gas production, very low / AW, after 60°C ; rate / gas production, the same / 0.1 at 80°C and 90°C ; data manipulation ;

11(a)(i)	7.4 (g) ; 300 (minutes) ;
11(a)(ii)	mass decreases / no carbon dioxide is produced ; enzymes inactive / yeast killed or destroyed ;
11(a)(iii)	alcohol / ethanol ;
11(b)	(Respiration) releases energy. ; (Respiration) uses glucose. ;
11(c)	oxygen ;
11(d)	excretion ticked ; growth ticked ;

12(a)	<i>gap 1</i> : 7.07 (to) <i>gap 2</i> : 6.55 ; (enough) <i>gap 3</i> : oxygen / oxygenated blood <i>gap 4</i> : (an) oxygen (debt) ; <i>gap 5</i> : any time between 31 and 32 (minutes) ; <i>gap 6</i> : blood(stream) / (blood) plasma ; <i>gap 7</i> : liver ; <i>gap 8</i> : heart / pulse ;
12(b)(i)	$(C_6H_{12}O_6) \rightarrow 2C_2H_5OH + 2CO_2$;;
12(b)(ii)	cell wall / (large) vacuole / plasmid(s) ;