

# AQA Biology

## GCSE Student book answers

## B7 Practice questions

Question	Answers	Extra information	Mark
01	liver disease – alcohol skin cancer – ionising radiation type 2 diabetes - obesity		1 1 1
02.1	31.8 / 31.83 / 31.834	allow <b>1 mark</b> for 31.833 <b>or</b> allow <b>1 mark</b> for correct substitution into equation	2
02.2	40	allow answer in range of 35–45	1
02.3	as BMI increases risk of developing (Type 2) diabetes increases  at an increasing rate		1  1
02.4	any <b>one</b> from: <ul style="list-style-type: none"> <li>• age</li> <li>• ethnic background</li> <li>• genes</li> <li>• amount of exercise / activity</li> </ul>	allow if others in the family have it	1
02.5	measure the amount of sugar in the blood / urine, raised levels of sugar indicate diabetes		1
02.6	any <b>two</b> from: <ul style="list-style-type: none"> <li>• eat less sugar / carbohydrates</li> <li>• do more exercise</li> <li>• lose weight</li> </ul>		2
03.1	mitosis		1
03.2	cells break off travel in the blood		1 1
03.3	any <b>three</b> from: <ul style="list-style-type: none"> <li>• more men die from lung cancer than women</li> <li>• number of deaths from lung cancer has increased over the years</li> <li>• the average number of cigarettes smoked per person per year has increased over the years</li> <li>• women smoke fewer cigarettes (on average) per year</li> <li>• the link between smoking cigarettes and</li> </ul>		3

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	lung cancer is stronger in men than in women		
03.4	any <b>one</b> from: <ul style="list-style-type: none"> <li>coronary heart disease</li> <li>stroke</li> <li>emphysema</li> <li>bronchitis</li> <li>asthma</li> </ul>		1

04				6
0 marks	Level 1 (1–2 marks)	Level 2 (3–4 marks)	Level 3 (5–6 marks)	
No relevant content	At least <b>one</b> action should be described.	Several actions (at least three) should be described <b>and</b> at least <b>one</b> correct explanation.	Actions should be clearly described with several of these correctly explained. Both things to do <b>and</b> things to avoid should be included.	

04	<b>examples of the points made in the response</b> <p>things a person should do:</p> <ul style="list-style-type: none"> <li>eat a balanced diet – to control weight / provide the correct nutrients</li> <li>exercise (regularly) – to control weight <b>or</b> maintain the heart / bones / joint mobility / muscle strength / reaction time <b>or</b> improve mood</li> <li>get enough sleep / rest</li> <li>regular health checks / vaccinations as necessary</li> </ul> <p>things to avoid:</p> <ul style="list-style-type: none"> <li>smoking – can cause cancer / heart disease / circulatory problems / lung disorders</li> <li>too much alcohol – can cause liver disease / affect brain function</li> </ul>	allow a named nutrient – correctly linked to its effect	6
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	<ul style="list-style-type: none"><li>• too much salt – can cause high blood pressure</li><li>• too much fat / energy – can lead to obesity / Type 2 diabetes / joint problems</li><li>• illegal drugs / named drug- allow correctly linked effect</li><li>• too much UV light – skin cancer</li><li>• carcinogens / named carcinogen – cause cancer</li></ul>		
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