



END OF YEAR MOCK EXAMINATION SECONDARY THREE COMBINED BIOLOGY (ANSWER KEY)

Paper 1

1	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
2	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input checked="" type="checkbox"/>	D <input type="checkbox"/>
3	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
4	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input checked="" type="checkbox"/>	D <input type="checkbox"/>
5	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
6	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
7	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
8	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
9	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
10	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>

Paper 2

Question 11

(a)(i) Potato strip A. [1]

(a)(ii) Potato strip B. [1]

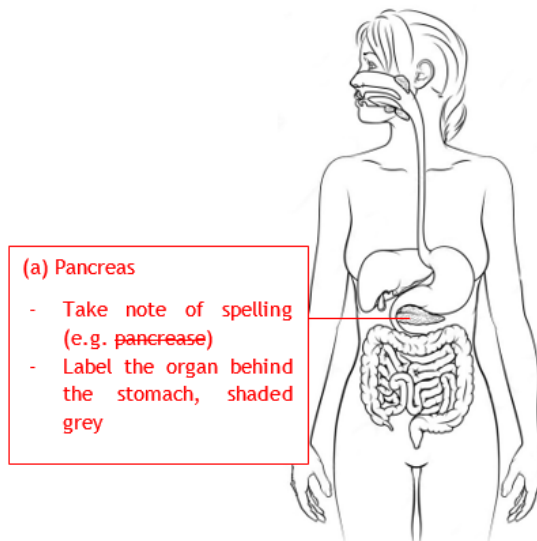
(b) The cells of potato strip C had a lower water potential than the solution it was placed in [1],

resulting in the net movement of water molecules from the solution into the cell down the water potential gradient, across the partially/selectively permeable cell membrane. [1]

The increase in water mass caused potato strip C to increase in mass. [1]

Question 12

(a)



(b) The person has to consume less fats. [1]

Without pancreatic lipase secreted into the duodenum, the rate of digestion of fats will be lower than with a pancreas. [1]

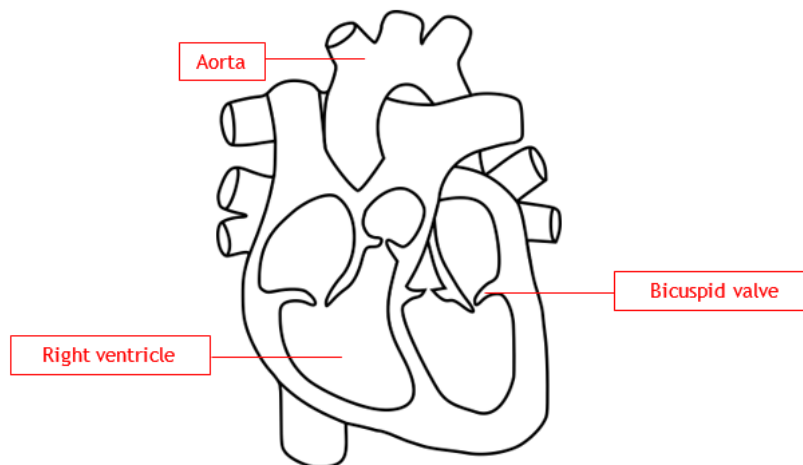
Undigested fats will be removed with undigested food, resulting in oily stools. [1]

Question 13

(a)(i);

(a)(ii);

(a)(iii)



(b) A weakened aortic valve allows some blood to flow back into the left ventricle, resulting in less blood flowing through the aorta when the ventricle contracts. [1]

Body cells receive less oxygenated blood and release less energy due to the decreased rate of respiration, causing the person to feel more lethargic. [1]

- (c)
- Thick muscular walls
 - Withstand high blood pressure

OR

- Narrow lumen
- Maintain high blood pressure

OR

- Elastic muscular wall
- Recoil to withstand high blood pressure [1]