

BIOLOGY

Paper 3172/12
Multiple Choice 12

Question Number	Key	Question Number	Key	Question Number	Key	Question Number	Key
1	B	11	B	21	C	31	B
2	C	12	D	22	D	32	A
3	B	13	B	23	D	33	A
4	D	14	B	24	A	34	B
5	D	15	C	25	A	35	D
6	B	16	B	26	B	36	C
7	A	17	B	27	D	37	A
8	A	18	A	28	C	38	C
9	A	19	C	29	C	39	B
10	C	20	B	30	B	40	B

General comments

The mark distribution covered the full range of marks between 1 and 40. A number of candidates achieved full marks which is a reflection of their preparation for this examination.

Comments on specific questions

Question 2

A significant number of candidates incorrectly chose option **D**. The surface area of the cell walls is not particularly large, and anyway there is no movement of water through the walls. Some candidates opted for **B** perhaps demonstrating the same misconception.

Question 9

This question proved to be very straightforward with most candidates selecting the correct response, **A**, showing a pleasing understanding of the factors contributing to heart disease.

Question 21

This question proved to be challenging for many candidates. The most popular (incorrect) answer was **B**. It is possible that the use of the word 'condition' which is sometimes an alternative to 'disease' confused some candidates, but clearly the variable pattern on either side of a set point (option **C**) is not familiar to many.

Question 31

All candidates scored well on this question showing a very good understanding of the control of malaria.

Question 32

Many candidates selected **B** for this question perhaps not appreciating that the x-axis of the graph represents distance downstream of the outflow and instead thinking of it as a time graph. Away from the outflow there will clearly be a dilution effect.

Question 38

This question was very demanding but a pleasing number of candidates selected the correct response, **C**.