BIOLOGY

Paper 1522/22 Multiple Choice (Extended) 22

Question Number	Key
1	В
2	D
3	С
4	С
5	D
6	Α
7	С
8	D
9	В
10	С

Question Number	Key
11	В
12	D
13	В
14	С
15	D
16	В
17	В
18	D
19	С
20	Α

Question Number	Key
21	Α
22	С
23	D
24	С
25	В
26	D
27	В
28	D
29	В
30	С

Question Number	Key
31	С
32	С
33	С
34	Α
35	Α
36	В
37	Α
38	С
39	D
40	В

General comments

While many questions were well-answered by most candidates, there were some areas of difficulty. Sex-linkage in genetics was not widely understood. It is important for candidates to work methodically through information given.

Comments on specific questions

Questions 1, 2, 6, 7, 8, 9, 10, 12, 13, 14, 17, 19, 20, 22, 24, 28, 30, 33, 36 and 37 were answered correctly by most candidates.

Question 15

Most candidates appreciated that the small intestine is the part of the alimentary canal where most water is absorbed. Some candidates incorrectly opted for the large intestine.

Question 18

Many candidates appreciated that the cell shown was a phagocyte, whose function was phagocytosis. Some candidates incorrectly believed that the cell produced antibodies.

Question 21

While most candidates understood that the brain is the organ that detects the changes in the carbon dioxide concentration of the blood, some candidates incorrectly opted for the lungs.

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Question 23

Most candidates correctly opted for protein as the food type that when eaten in excess, will cause a rise in the urea content of urine. Some candidates incorrectly opted for mineral salts.

Question 25

On the whole, candidates were able to derive the correct answer, appreciating what the appearance of the eye would be when focusing on a near object in bright daylight.

Question 26

Many candidates understood that when the rotating platform stops, the shoot will grow towards the light. Some candidates incorrectly believed that the shoot will continue to grow upwards.

Question 27

Some candidates knew that alcohol is a depressant. A common misconception was that alcohol reduces reaction times.

Question 29

Many candidates knew the roles of the hormones that control the menstrual cycle.

Question 31

Few were able to derive the correct answer for this sex-linked problem.

Question 32

Some candidates understood what is meant by a test cross (bb X BB or bb X Bb).

Question 35

Some candidates knew the sequence of events that occur in the nitrogen cycle, but many opted for an incorrect distractor.

Question 38

Although many candidates understood that a restriction enzyme is used to create complementary sticky ends in genetic engineering, DNA ligase was a common incorrect response.

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