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Practice questions created by actual examiners and assessment experts

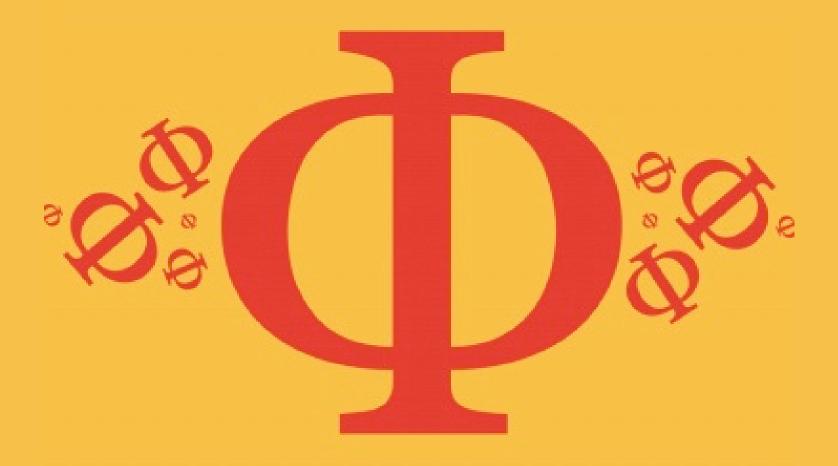
Detailed mark scheme

Suitable for all boards

Designed to test your ability and

11.1 Antibody Production & Vaccination

Easy



BIOLOGY





11.1 Antibody Production & Vaccination

Question Paper

Course	DP IB Biology
Section	11. Animal Physiology (HL Only)
Торіс	11.1 Antibody Production & Vaccination
Difficulty	Easy

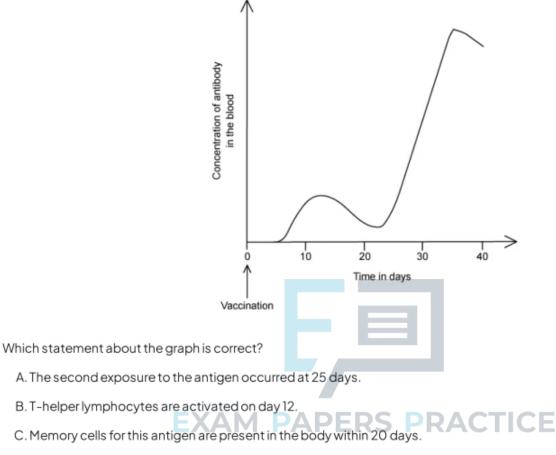
EXAM PAPERS PRACTICE

Time allowed:	10
Score:	/5
Percentage:	/100



Question 1

The amount of antibody produced in response to an antigen in a vaccine is shown in the graph below.



D. The secondary immune response begins at around day 35.

[1 mark]

Question 2

When a B-lymphocyte is activated by an antigen, what action is taken?

- A. It engulfs the infected body cell which displays a complementary antigen.
- B. It secretes signalling proteins that stimulate T-lymphocytes to produce plasma cells.
- C. It divides repeatedly to form clones of genetically identical plasma cells.
- D. It attaches to the infected cell displaying the antigen and destroys it.

[1mark]



Question 3

Antibodies can protect the body from pathogens in several ways.

Which of the options below will not occur following antigen-antibody binding?

- A. Increased susceptibility to phagocytosis.
- B. Neutralisation of toxins to make them harmless.
- C. Secretion of histamine to produce an allergic reaction.
- D. Agglutination of bacteria to reduce their spread.

[1mark]

Question 4

A child is given a vaccine for a viral disease. A few months later she is in contact with the same virus.

What is the expected response to the second contact with the virus?

- A. Increased number of T-lymphocytes.
- B. Large numbers of antibodies are released
- C. Large numbers of antigens are released.
- D. Increased number of B-lymphocytes.

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EXAM F	APERS	PRACTICE	

[1mark]

Question 5

Which type of molecule is most important to directly identify a cell as non-self?

- A. Proteins
- B. Phospholipids
- C. Carbohydrates
- D. Nucleic acids

[1mark]