



QUESTION WORKBOOK

The specific response: selected, cloned, remembered

Pathogens, disease and immunity · Unit B11

AQA 3.2.4 · OCR A 4.1.1 · Edexcel A Topic 6.6 · CAIE 11.1

5 questions · 19 marks

NAVY SCREEN EDITION

SECTION A · Short, 1 to 2 marks

A1 State what is meant by clonal selection and state what is meant by clonal expansion. [2]

SECTION B · Standard, 3 to 5 marks

B1 Describe the sequence of events from a pathogen entering the body to antibody appearing in the blood plasma. [5]

B2 Explain why detectable antibody appears about eight days after a first exposure to an antigen but only about two days after a second exposure to the same antigen. [4]

B3 Explain why an untreated HIV infection eventually leaves a person unable to deal with infections that an intact immune system would handle easily. [4]

B4 A virus is replicating inside the cells lining a person's airways. Suggest how T-killer cells limit the infection, and suggest why antibody alone would not be enough. [4]
