



QUESTION WORKBOOK

Infectious disease: transmission and control

Pathogens, disease and immunity · Unit B11

AQA not examined as a topic · OCR A 4.1.1 · Edexcel A 6.6, 6.11, 6.13
Edexcel B 2.2 iv, 3.2 iv, 6.4 ii, 6.5 i, 6.6 i · CAIE 10.1

7 questions · 26 marks

PRINT EDITION

Every question in this book has a code beside its number.
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SECTION B · Standard, 3 to 5 marks**B1**
IDT-Q1

Tuberculosis is spreading in a low-income country, and cases that have stopped responding to the usual antibiotics are appearing. Discuss the biological, social and economic measures a control programme should use.

[5]

B2
IDT-Q2

Describe how malaria is transmitted from an infected person to an uninfected person.

[4]

B3
IDT-Q3

Explain why antiretroviral drugs control an HIV infection without curing it, and explain why there is still no vaccine against HIV.

[4]

B4

IDT-Q4

A camp built after a flood has one water source, no latrines and has just reported its first cases of cholera. Suggest why cholera spreads so quickly under these conditions, and suggest one measure that would break the chain of transmission.

[4]

B5

IDT-Q5

Name the pathogen that causes cholera, name the four species of *Plasmodium* that cause malaria, and name the two species of *Mycobacterium* that cause tuberculosis.

[3]

B6

IDT-Q6

Explain why tuberculosis spreads readily through overcrowded, poorly ventilated housing.

[3]

B7

IDT-Q7

In one district there are 4000 pregnancies a year in women infected with HIV.

Untreated, 25 per cent of these result in transmission to the child; with antiretroviral treatment in pregnancy the figure falls to 0.8 per cent. Calculate the number of infections prevented each year if every pregnancy is treated, and calculate that as a percentage reduction. [3]

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