

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION

Biology

Section I (continued)

Part B – 60 marks

Attempt Questions 16–27

Allow about 1 hour and 45 minutes for this part

Answer the questions in the spaces provided.

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Marks

Question 16 (4 marks)

‘Modern methods of disease control place more emphasis on prevention than on treatment.’ 4

Discuss this statement using at least ONE example in your answer.

As contemporary scientists have discovered, it is much more efficient, effective and economically practical to find ways to prevent disease rather than treat someone who has already contracted a disease. Through measures such as vaccination, diseases such as smallpox can be quickly and easily prevented. In 1980, the WHO declared the world free of smallpox. Prevention is a more cost-effective and less trauma-causing for the affected way of controlling disease than treating an already infected person. Prevention would also inevitably save more lives than treatment measures.