

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.

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.

Modern overusage of antibiotics is an example of where treatment is more common than prevention. ~~But~~ Persons suffering a basic bacterial infection have antibiotics dispensed to them readily as a treatment. ~~But~~ Regular tetanus shots, and immediate washing of cuts and grazes are now being advised to the community more commonly. Public education programs about hygiene, and hygiene rules in public areas such as pools mean that prevention is now becoming more actively encouraged. This method is being used to control the disease as overuse of antibiotics leads to bacterial genetic resistance and treatment can become ineffective and control difficult.