

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.

It is true that nowadays, there is more emphasis placed on prevention than on treatment, since treatment may cause resistance of pathogens to treatment. For example in agriculture pests such as the green vegetable bug ~~are~~ transfer disease by acting as a vector. Treatment includes killing them using pesticides & insecticides, which make not only cause resistance in the bugs but also chemically destroy crops. However, prevention through biological control, ~~the~~ which includes the use of parasitoid fly from Argentina, transferring eggs into the bugs, which hatch and ~~the~~ kill them, is more effective to kill the pathogen and prevent harm to the host.