

2001 HIGHER SCHOOL CERTIFICATE EXAMINATION

Biology

Section I – Part B (continued)

Question 25 (3 marks) **Marks**

Antibiotics are drugs widely used in most industrialised societies. They are used to treat bacterial infections, are added to animal feed, and have been included in plastic products such as sandwich bags. **3**

Explain TWO possible effects of this widespread use of antibiotics on the likely spread of disease in the future.

As some disease are spread really fast across the country, more people are going to turn to antibiotics as it diagnoses the disease. Helping the body fight it.

Question 26 (3 marks)

When a body organ is transplanted from one person to another, the immune system of the recipient is triggered.

(a) Patients who have an organ transplant are given drugs to suppress their immune response. State the reason for this. **1**

the immune system would n't be used to the new organ.

(b) Explain a possible consequence for the general health of organ transplant patients as a result of suppressing the immune system. **2**

It could cause a problem, you could become extremely sick during this time.

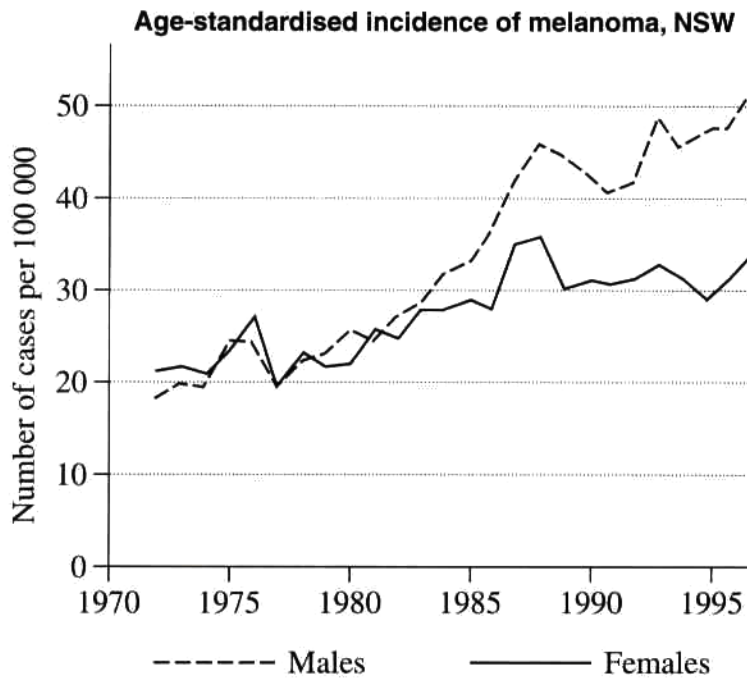
Marks

Question 27 (4 marks)

Epidemiological studies have demonstrated a relationship between ultraviolet radiation exposure and the development of melanoma, a type of skin cancer.

4

The graph shows the rate of occurrence of melanoma in males and females between 1972 and 1997.



A student studying the graph made the following statement.

'The incidence of melanoma will continue to increase beyond 1997 at a greater rate in males than in females.'

Analyse the data in the graph to assess the validity of this statement.

The people may find the way to prevent the cause of the skin cancer. Within the next ~~10~~ years the number could also decreased. The ~~is~~ statement that student made are only predicted not the real figures. With today, scientist are try to bring the product which suitable for the causing of the diseases.

Marks

Question 28 (8 marks)

Evaluate the impact of major advances in scientific understanding and technology, in the field of genetics, on developments in reproductive technologies.

8

Scientific understanding and technology in the field of genetics has advanced in many ways. Having it going abit too far at rapid speed, not being able to keep up with it. As in for genetics they've cracked the code and now have began clone animals and soon people.