Infection and response

Biology Paper 1 | 5 questions, 6 marks each

GCSE science 6-mark questions

This topic online

Name: _____ **Date:** _____ **Score:** _____ **/ 30**

Plan before you write: jot down the 6 or more ideas you need, then put them in a sensible order. For compare questions give both sides of each point; for evaluate questions use the information and finish with a conclusion.

1 A primary school in Leicester has an outbreak of measles. Children who had the MMR vaccine as toddlers did not become ill.

Explain how the vaccine protected these children, and why it matters that most children in the area are vaccinated.

(6 marks)

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2 Salmonella food poisoning is caused by a bacterium. HIV is caused by a virus.

Compare these two diseases. Include how each is spread, how each affects the body and how each is controlled or treated.

(6 marks)

3 A pharmaceutical company in Cambridge has discovered a chemical that might treat migraines.

Describe the stages the new drug must go through before doctors can prescribe it.

(6 marks)

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4 A hospital is considering treating some patients' cancer with monoclonal antibodies attached to an anti-cancer drug, instead of standard chemotherapy, which affects all dividing cells in the body.

Evaluate the use of monoclonal antibodies to treat cancer. Give a justified conclusion.

Separate science only

(6 marks)

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5 Fatima grows roses in her garden in Bristol. This year some leaves have purple or black spots and turn yellow, and the plants are growing slowly. She also finds small green insects on the young shoots.

Suggest what might be wrong with the roses, how Fatima could find out, and how she could help the plants.

Separate science only

(6 marks)

End of questions | Total 30 marks

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