



Vaccines

1 Explain what vaccines are and how they work

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[4 marks]

2 Give two examples of diseases that can be vaccinated against

1)

2)

[2 marks]

3 Herd immunity is achieved when a large portion of the population has been vaccinated against a disease. How does this reduce the chance that **unvaccinated** people in the population will catch it?

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[2 marks]

4 What are epidemics and how can vaccination programs influence them?

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[2 marks]

5 Give two potential problems of vaccines

1)

2)

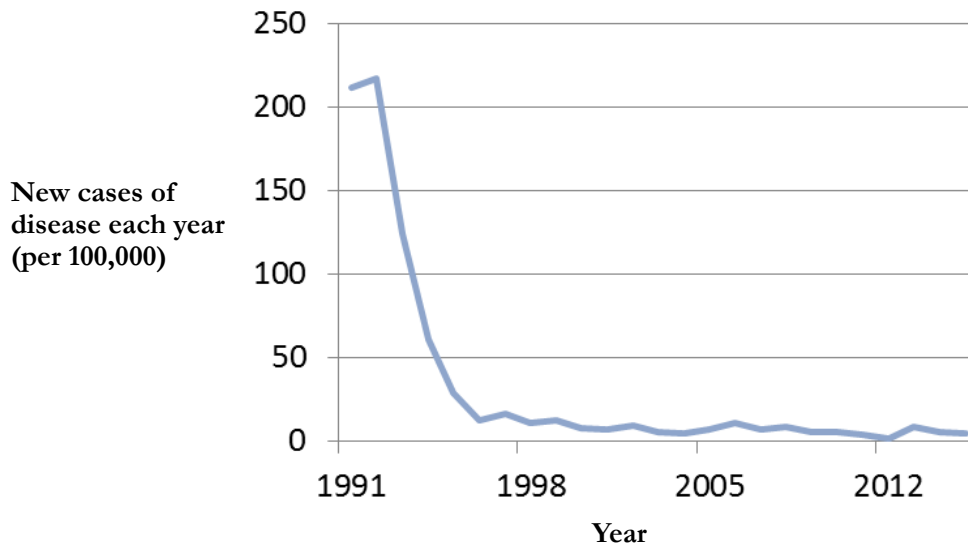
[2 marks]

6 What is the difference between antibodies and antigens?

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[2 marks]

7 The following graph shows the new cases of a certain disease. A new vaccine to the disease was introduced in 1991. Describe and explain the trend show in the graph.



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[4 marks]

[Total 18 marks]