OCR GCSE 21ST CENTURY BIOLOGY B · J257

BIOLOGY



EXAM QUESTION PACK

B2.3 HOW CAN WE PREVENT THE SPREAD OF INFECTIONS? (FOUNDATION)

SCORE	PERCENTAGE
/18	%

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1. Tuberculosis is an example of an opportunistic infection.

The BCG vaccination was given to all UK children between the ages of 10 and 14 until 2005.

In 2005, this routine immunisation was stopped.

Why would the government stop vaccinating a population?

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[1]

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2. It is important to keep fit and healthy.

Read these descriptions about three different people.

- Huw runs twice a week to keep fit. He has normal blood pressure and is not overweight.
- Mary has the flu. She feels unwell and goes to bed with a high temperature.
- Paolo has inherited a condition called Huntington's disease from his father.

(i) Use the three people described above as examples to explain the difference between health and disease.

---[2]

(ii) Explain the difference between a communicable disease and non-communicable disease.

Use the three people above as examples to help you.

---[2]

(iii) Sexually transmitted infections are a type of communicable disease.

Contraception prevents pregnancy and the pictures below shows various forms of contraception.

Which one also prevents the spread of sexually transmitted infections?

Explain why.

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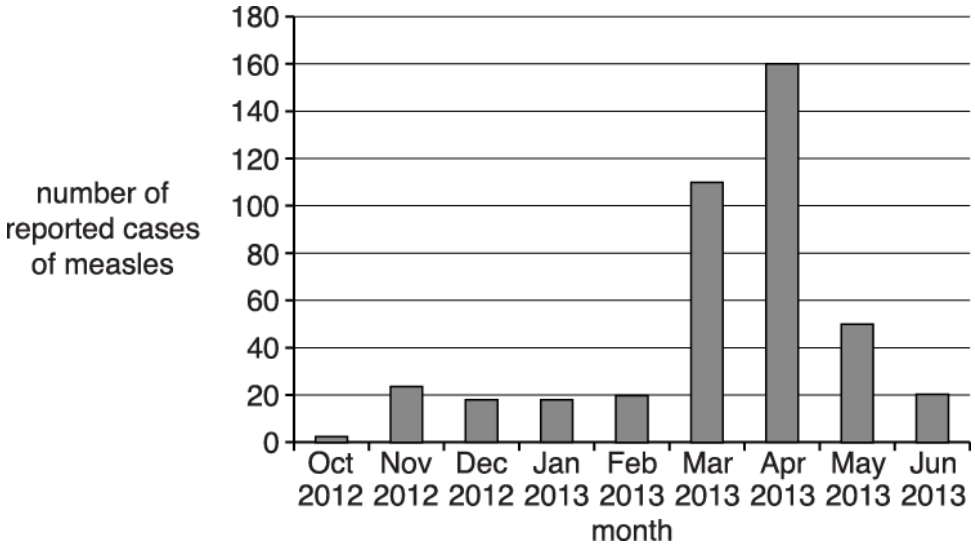
[2]

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3(a). Measles is a very infectious and potentially deadly disease.

It is caused by a virus.

The graph shows the number of measles cases reported in South Wales between October 2012 and June 2013.



Describe the **pattern** shown by the data on the graph.

Use figures from the graph in your answer.

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[3]

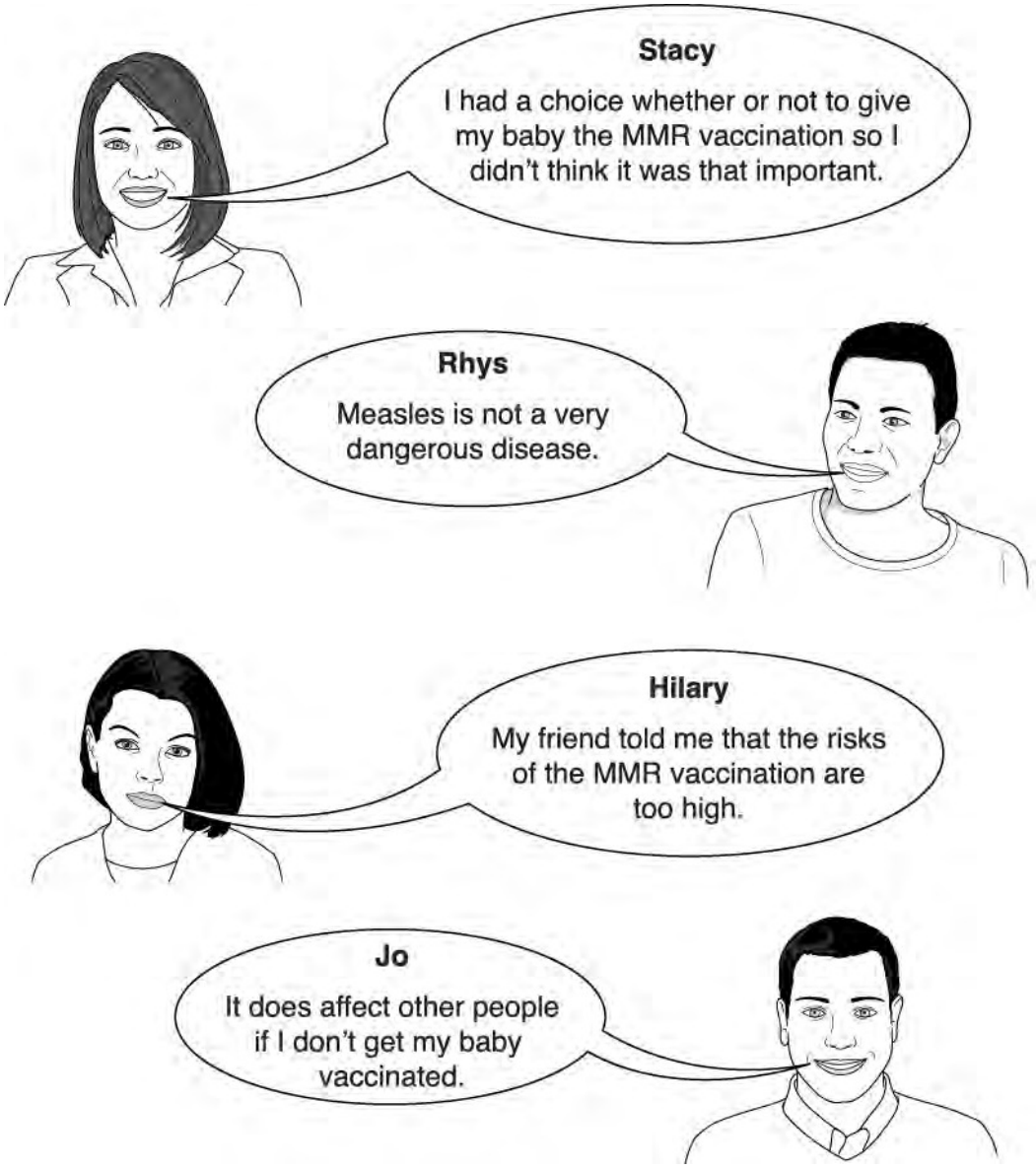
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(b). The MMR vaccination against measles, mumps and rubella is offered to babies in the UK when they are one year old.

Some parents do not have their babies vaccinated.

Here are some reasons why.



(i) Who has properly considered their social responsibilities?

_ _ _ _ _ _ _ _ _ _

[1]

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(ii) Which person gives a reason why the MMR vaccination should be made compulsory?

_____ [1]

(iii) Which **two** people have not properly considered the scientific evidence about the dangers of measles?

_____ and _____ [1]

(iv) Hilary is worried that the MMR vaccine is too risky.

Write down **one risk** and **one benefit** to the baby being vaccinated.

risk

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benefit

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[2]

4. Humans can be vaccinated to protect them from pathogens. However, plants cannot be protected in the same way.

Explain why vaccination cannot work in plants in the same way as it works in humans.

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[3]

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END OF QUESTION PAPER

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