

1 (a) (i) A horse breeder wants to clone his successful race horse.

Describe how adult cell cloning could be used to produce a clone of the race horse.

[4 marks]

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1 (a) (ii) Suggest why some people might be against the idea of a horse breeder cloning race horses.

[1 marks]

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1 (a) (iii) Cloning can be described as a form of asexual reproduction.

What is meant by asexual reproduction?

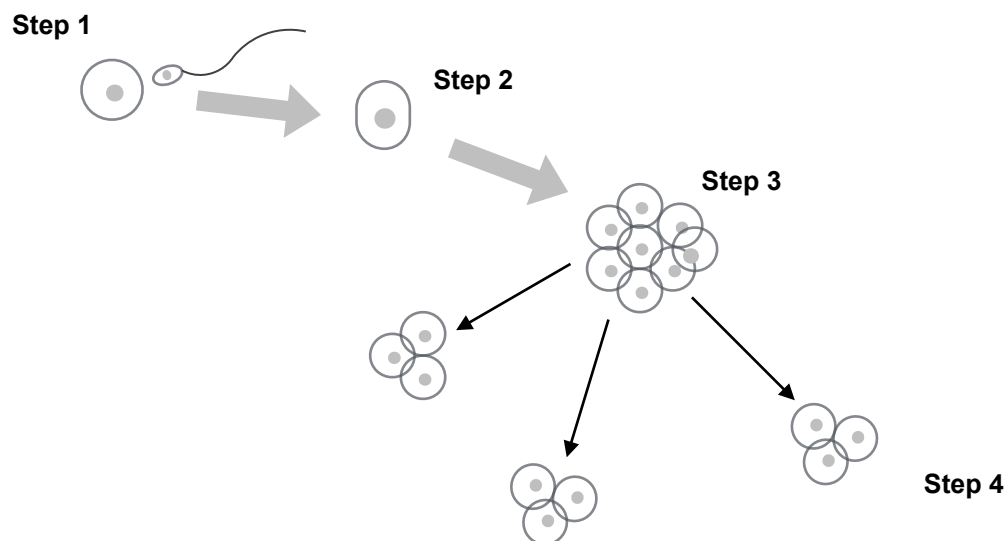
[3 marks]

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- 1 (b) The diagram below shows another way that clones can be made of animals.



- 1 (b) (i) Name the process that is occurring in **Step 1**.

[1 mark]

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Name the structure in **Step 3**

[1 mark]

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- 1 (b) (ii) Describe what is done next with the three structures in **Step 4** in order to produce clones.
[2 marks]

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- 1 (b) (iii) It is important to carry out step 4 within a few days of step 1.

Suggest why.

[2 marks]

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(Total 14 marks)

End

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