

(a) Explain why the cells in the morula are genetically identical.

(2)

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(b) Structure **A** can be used as a source of pluripotent stem cells.

(i) Name structure **A**.

(1)

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(ii) Stem cells can be used as a medical treatment when a patient has had a severe heart attack.

A severe heart attack can cause the death of heart muscle cells.

The medical treatment involves injecting stem cells into damaged areas of the heart muscle.

Suggest why injecting pluripotent stem cells may benefit a person who has had a severe heart attack.

(2)

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(Total for Question 2 = 5 marks)