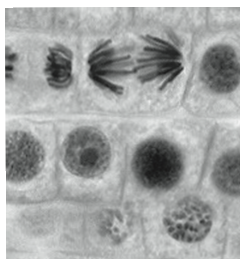


- 1 The diagram shows root cells undergoing cell division. The cells are at various stages of dividing.



- 1 (a) (i) Name the type of cell division that is shown in the diagram.

.....
(1 mark)

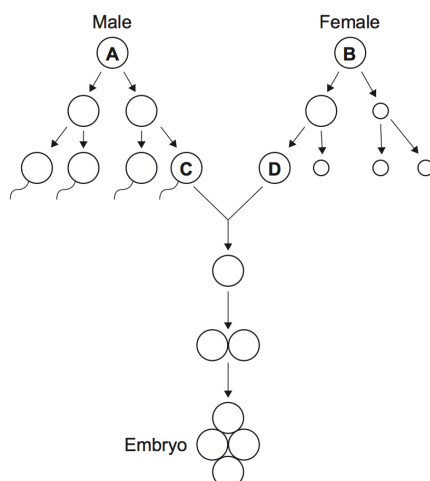
- 1 (a) (ii) What happens to the genetic material before the cell divides?

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(1 mark)

- 1 (a) (iii) Why is this type of cell division important for an organism?

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(2 mark)

- 1 (b) The diagram shows some types of cell division that happen during human reproduction.



- 1 (b) (i) Name the type of cell division that produces cell D from cell B.

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(1 mark)

1 (b) (ii) Why is this type of cell division important in producing cell C or cell D?

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(2 mark)

1 (b) (iii) Meiosis and mitosis are different types of division in human cells. Compare the two processes by referring to where each takes place and the kind of products that are made.

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(5 marks)

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