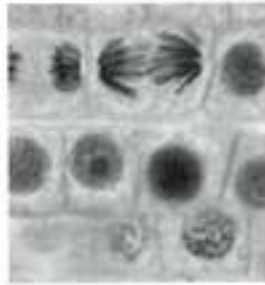


0	1
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The diagram shows root cells undergoing cell division. The cells are at various stages of dividing



0	1	.	1
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Name the type of cell division that is shown in the diagram

\_\_\_\_\_ [1 mark]

0	1	.	2
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What happens to the genetic material before a cell divides

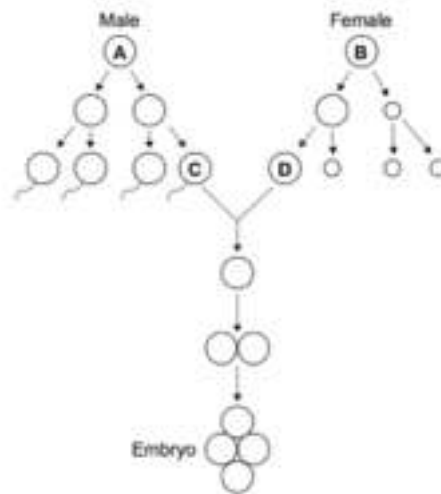
\_\_\_\_\_ [1 mark]

0	1	.	3
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Why is this type of cell division important for an organism?

\_\_\_\_\_  
\_\_\_\_\_ [2 marks]

The diagram below shows some types of cell division that take place during human reproduction



0	1	.	4
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Name the type of cell division that produces cell **D** from cell **B**.

\_\_\_\_\_ [1 mark]

Why is this type of cell division important in producing cell **C** or cell **D**?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2 marks]

0	1	.	5
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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]**