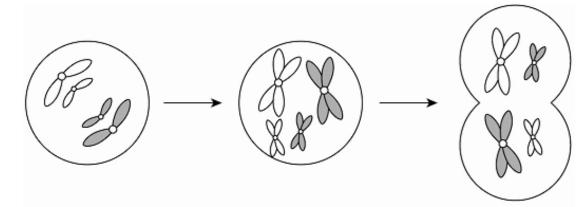


## CHAPTER 3: HEREDITY AND VARIATION

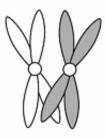
- 1 Which statement about meiosis is correct?
  - A Organisms grow by the process of meiosis.
  - **B** All cells in our body carry out meiosis.
  - **C** The daughter cells formed during meiosis have the same number of genes as the parent cell.
  - **D** Each daughter cell has half the number of chromosomes of the parent cell.
- 2 The diagram below shows a type of cell division.



Name the type of cell division taking place. Give a reason for your answer.

[1 *mark*]

3 The diagram below shows two chromosomes during meiosis.



(a) What do we call each half of each chromosome?

[1 mark]



(b) In which part of a cell do we find chromosomes?

			[1 mark]
	(c)	What actual process is taking place between the two chromosomes shown?	
			[1 mark]
	(d)	State one consequence of this process.	
			[1 mark]
4	(a)	State the aim of each of the following processes. i. Mitosis	
		ii. Meiosis	
			[2 marks]
	(b)	Which process given in (a) may bring about genetic variation in an organism?	
			[1 mark]
	(c)	A woman has 46 chromosomes in a body cell. How many chromosomes are preegg cell of the woman?	esent in an

[1 mark]

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