

Variation

Question Paper 2

Level	International A Level
Subject	Biology
Exam Board	CIE
Topic	Selection and evolution
Sub Topic	Variation
Booklet	Theory
Paper Type	Question Paper 2

Time Allowed : 68 minutes

Score : / 56

Percentage : /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	'77.5%	70%	62.5%	57.5%	45%	<45%

(b) An ecosystem that has a wide range of species has a high biodiversity.

Explain the benefits of maintaining biodiversity.

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..... [4]

[Total: 8]

(b) Explain what is meant by the term *biodiversity*.

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..... [2]

(c) Discuss the benefits of maintaining the biodiversity of a marine ecosystem, such as that in the coastal waters of Canada.

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..... [3]

[Total: 8]

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4 Fig. 2.1 is a diagram of pair of homologous chromosomes during meiosis.

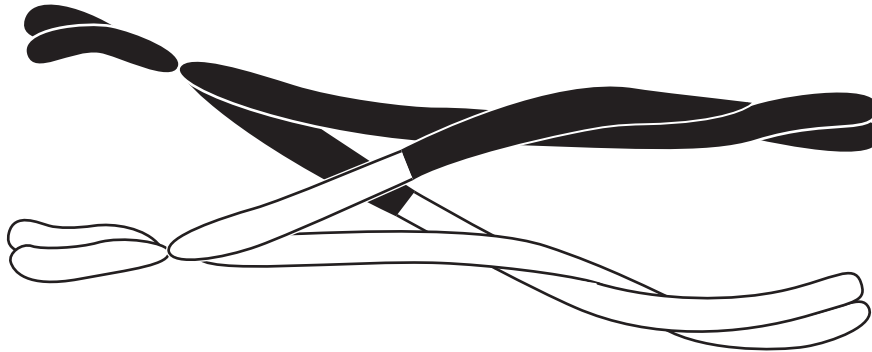


Fig. 2.1

(a) State what stage of meiosis is shown.

.....[1]

(b) Describe what has occurred between the two homologous chromosomes.

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.....[3]

(c) Explain how this can lead to variation.

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.....[2]

(d) Describe **two** other sources of variation that are possible as a result of meiosis.

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.....[4]

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