

Section B

Answer only **one** question.

Your answer should be illustrated by large, clearly labelled diagrams, where appropriate.

Your answer must be in continuous prose, where appropriate.

Up to 4 additional marks are awarded for quality of language.

Your answer must be set out in sections (a), (b) etc., as indicated in the question.

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| 8 | (a) | Outline the major differences between mitosis and meiosis. | [6] |
| | (b) | Explain the significance of mitosis and meiosis. | [10] |
| 9 | (a) | Discuss the semi-conservative replication of DNA. | [6] |
| | (b) | Describe how information on DNA is used to construct a polypeptide chain. | [10] |
| 10 | (a) | Discuss the distinguishing features between endocrine and nervous control. | [6] |
| | (b) | Describe how an impulse is transmitted across a cholinergic synapse. | [10] |