

Section B

Answer any **two** questions. You are advised to spend one hour in this section.

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

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| 10 | (a) | Outline the structure of a nephron. | [8] |
| | (b) | Explain the advantages to humans, of using urea as a nitrogenous waste product. | [4] |
| 11 | (a) | Discuss the reasons for maintaining biodiversity. | [8] |
| | (b) | Explain the effects of human activities on the carbon cycle. | [4] |
| 12 | (a) | Describe, giving examples, the main features of the binomial system of nomenclature. | [4] |
| | (b) | Outline the characteristic features of an organism that belongs to phylum Annelida. | [8] |
| 13 | (a) | Discuss the effects of excessive alcohol consumption by a pregnant mother on foetal development. | [8] |
| | (b) | Describe the role of hormones during labour. | [4] |