

Section B

Answer any *two* questions.

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

Your answers must be in continuous prose, where appropriate.

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

- 9 (a) Discuss the use and effects of nitrogen containing fertilisers in agriculture. [8]
- (b) Outline the reasons why conservationists are concerned about the population of the African elephant, *Loxodonta africana*. [8]
- 10 (a) Outline the characteristic features of organisms belonging to the phylum Cnidaria. [7]
- (b) Explain the extent to which bryophytes are adapted to life in a terrestrial environment. [9]
- 11 (a) Relate the structure of the chloroplasts to their role in photosynthesis. [7]
- (b) Describe the main reactions of the Calvin cycle. [9]
- 12 (a) Outline the differences between mitosis and meiosis. [8]
- (b) Discuss the problems associated with the measurement of growth. [8]