

- 1.3 Indicate whether each of the statements in COLUMN I applies to A only, B only, both A and B or none of the items in COLUMN II. Write A only, B only, both A and B or none next to the question number (1.3.1 and 1.3.5) on your answer sheet.

COLUMN I	COLUMN II
1.3.1 Effects of deforestation	A reduced absorption of carbon dioxide B oxygen deficiency in water
1.3.2 Disadvantages of dams	A increase seasonal flooding B decreased loss of biodiversity
1.3.3 Causes of ozone depletion	A increase in carbon dioxide concentration in the atmosphere B CFC's
1.3.4 Effects of desertification	A reduced productivity B poverty in local communities
1.3.5 Advantages of GM foods	A some crops are resistant to pests B vegetables have a longer shelf life

5 × 2 = (10)

- 1.4 The diagram below represents the flower of an Angiosperm plant. Study the diagram and answer the questions that follow.



- 1.4.1 What is the collective name given to parts a, b and c? (1)
 1.4.2 Is this flower likely to be self-pollinated? Give a reason for your answer. (2)
 1.4.3 Which LETTER represents the part that will develop into a fruit? (1)

- 1.5 Study the graph below of the viral load and CD₄ count in blood taken from an HIV-infected person and then answer the questions below.



- 1.5.1 Discuss the trend of the curve in Graph A. (2)
 1.5.2 Describe the relationship between Graph A and Graph B. (2)

TOTAL SECTION A: (16)

SECTION B QUESTION 2

- 2.1 The table below shows the number of tuberculosis (TB) cases and the number of deaths from TB around the world in 2009. Use the information in the table to answer the questions that follow.

Region	Number of cases (1 000's)	Number of deaths (1 000's)
Africa	3 600	400
The Americas	700	70
Eastern Mediterranean	1 000	90
Europe	580	82
South-East Asia	4 900	480
Western Pacific	7 900	240
Global total	14 000	1 300

- 2.1.1 What type of micro-organism causes TB? (1)
 2.1.2 What type of medication is used to treat and cure TB? (1)
 2.1.3 Work out the percentage of cases in Africa in terms of the global total. Show all your calculations. (2)
 2.1.4 Which country had the highest number of deaths from TB in 2009? (1)
 2.1.5 Suggest and explain reasons for the high number of TB cases in Africa in 2009. (2)
 2.1.6 Give ONE symptom of TB. (1)

(16)

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Yi-Tong Ma



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