

CSEC Agricultural Science Double Award

Paper 2 – Structured Questions

Time: 2 hours 30 minutes

Total Marks: 100

Answer all questions in the spaces provided.

- (a) Define the term 'photosynthesis'. (2 marks)

(b) Describe two environmental factors that affect the rate of photosynthesis. (4 marks)

(c) Draw and label a diagram of a chloroplast. (4 marks)

(Total 10 marks)
- (a) List three functions of the root system in plants. (3 marks)

(b) Explain the process of transpiration and its importance to plants. (5 marks)

(c) Suggest two ways to reduce transpiration in crops. (2 marks)

(Total 10 marks)
- (a) What is soil erosion? (2 marks)

(b) Describe two methods farmers can use to control soil erosion. (4 marks)

(c) Explain one effect of soil erosion on agriculture. (4 marks)

(Total 10 marks)
- (a) Name two internal parasites that affect livestock. (2 marks)

(b) Explain two effects of internal parasites on livestock production. (4 marks)

(c) Outline two methods of controlling internal parasites. (4 marks)

(Total 10 marks)
- (a) Define crop rotation. (2 marks)

(b) List three advantages of practicing crop rotation. (3 marks)

(c) Design a four-year crop rotation plan including legumes and root crops. (5 marks)

(Total 10 marks)

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