



Republic of South Sudan
Ministry of General Education & Instruction
Secretariat of Examinations

045/2
AGRICULTURE
PAPER TWO
3 hours

SOUTH SUDAN CERTIFICATE OF SECONDARY EDUCATION(SSCES) EXAMINATIONS

Nov/Dec, 2011

AGRICULTURE
PAPER TWO

TIME: 3 HOURS

INSTRUCTIONS

Read the instructions carefully before answering any question

1. *Write your name, index number clearly in capital letters and sign on ALL answer booklets used.*
2. *This paper consists of five(5) Sections A, B, C, D and E*
3. *Answer question 1 in Section A and any four questions selecting one from each of the sections B,C, D and E.*

FOR EXAMINERS USE ONLY		
	EXAMINER	TEAM LEADER
SECTION A		
SECTION B		
SECTION C		
SECTION D		
SECTION E		
TOTAL MARKS		

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SECTION A:

1. The table below shows the response of maize yield to fertilizer application.

Fertilizer (bags)	Yield (Total Product)	Marginal Product
1	3	
2	7	
3	12	
4	16	
5	19	
6	21	
7	22	
8	22	
9	21	
10	18	
11	13	

- (a) Complete the table by calculating the Marginal product.
- (b) Draw a graph to show the relationship between maize yield and the amount of fertilizer applied.
- (c) Explain the shape of your graph.
- (d) Mark and name the most profitable zone of production on the graph.
- (e) Give a reason for your answer in (c) above.
- (f) Explain the changes in value of the Marginal Product you calculated in (a) above.

SECTION B:

CROP PRODUCTION

- 2.
 - (a) Explain the value of Horticulture in the economy of South Sudan.
 - (b) Suggest how the production of horticultural crops can be improved in South Sudan.
- 3. Explain with reasons the cultural practices involved in the growing of a tomato crop.

SECTION C:

ANIMAL PRODUCTION

4. (a) Why is the keeping of indigenous cattle breeds still preferred by most cattle keepers in South Sudan.

 (b) Suggest ways in which the livestock industry in South Sudan could be improved.
5. (a) Give reasons why an animal must be fed.

 (b) Explain how you would feed a calf from birth to weaning.

SECTION D:

AGRICULTURAL MECHANIZATION

6. Using appropriate illustrations describe the functioning of a 4-stroke petrol engine.
7. (a) Explain the factors to consider while constructing an animal house on the farm.

 (b) Give reasons for the popularity of wood as construction material.

SECTION E:

AGRICULTURAL ECONOMICS

8. (a) Using appropriate illustrations, explain how price is determined in a free market.

 (b) What are the factors that affect?
 - (i) the price of a commodity.
 - (ii) the demand of a commodity.
9. (a) Explain the problems involved in the marketing of agricultural products.

 (b) How can farmers in South Sudan benefit from co-operatives?

END