



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

045/3
AGRICULTURE
PAPER THREE (PRACTICAL)
2 HRS

SOUTH SUDAN CERTIFICATE OF SECONDARY EDUCATION (SSCSE)
EXAMINATIONS
NOV/ DEC 2012
045/3
AGRICULTURE
PAPER THREE (PRACTICAL)
2 HRS

NAME:.....

INDEX NUMBER: **SIGNATURE**

INSTRUCTIONS:

1. Answer **ALL** Questions.
2. Write your answers in the spaces provided.

FOR EXAMINERS USE ONLY			
Q1			
Q2			
Q3			
Q4			
Q5			
TOTAL			

Q1.You are provided with specimens A1, A2 and A3 which are soil samples. Conduct an experiment and enter your results in the spaces provided.

Procedures

- i. Obtain a sample of soil.
- ii. Moisten the sample of soil and squeeze out the water until it acquires a plastic quality.
- iii. Roll the sample between the palms of your hands until it attains a cylindrical shape.
- iv. Try to bend it into a shape of a ring. The degree of success in these operations will tell you something about the soil texture.

a. Observation on analysis of soil during the experiment

A1.....
.....
.....

A2.....
.....
.....

A3.....
.....
.....

b. Classify the soils and write down the identity of each one of them

A1.....

A2.....

A3.....

c. Which one of the soil types is suitable for agricultural production?

.....

D. Explain three characteristics of the soil type mentioned in 1 (c) above.

- i.....
- ii.....
- iii.....

Q2. You are provided with specimens B1, B2, B3, B4 and B5.

a. Examine and identify the specimens

- B1.....
- B2.....
- B3.....
- B4.....
- B5.....

b. State a function of each specimen

- B1.....
- B2.....
- B3.....
- B4.....
- B5.....

c. Identify one defect on each specimen which may limit its efficient use.

- B1.....
- B2.....
- B3.....
- B4.....
- B5.....

d. Explain how the defect on each of the specimen may affect its efficient use.

B1.....

B2.....

B3.....

B4.....

B5.....

(½ mark for each correct answer =10 marks maximum)

Q3 Specimens C1, C2, C3, and C4 are materials that can be used for sugar cane production.

(a) Give one comment in each case on the suitability of each specimen for planting.

C1.....

C2.....

C3.....

C4.....

(b) Identify one of the specimens that can be improved for planting.

.....

(c) Suggest how the specimen mentioned in 3 (b) above can be improved.

.....

(d) Describe how you would plant the specimen in 3(b) above, after improvement.

(i).....

.....

(ii).....

.....

(iii).....

.....

(iv).....
.....

(Each correct answer is 1 mark=10 marks maximum)

Q.4 You are provided with the reproductive system of poultry, examine it carefully and answer the questions that follow

(a) Identify the parts labelled

D1

D2

D3.....

D4

D5

(b)List the main function of each of the parts.

D1

D2

D3.....

D4

D5

Q.5 You are provided with parts of the internal combustion engine labelled E1, E2, E3, E4, E5, E6, E7, E8, E9 and E10. Study carefully and use them to answer the questions that follow.

Fill in the below table with correct information

Specimen	Identity of specimen	Summarize the functions of the specimen
E1		
E2		
E3		
E4		
E5		
E6		
E7		
E8		
E9		
E10		

Each correct answer is $\frac{1}{2}$ marks maximum marks 10 marks

The End