



GOVERNMENT OF SOUTHERN SUDAN
MINISTRY OF EDUCATION
EXAMINATIONS SECRETARIAT



SOUTHERN SUDAN CERTIFICATE OF SECONDARY EDUCATION (S.S.C.S.E)
EXAMINATIONS

Nov./Dec. 2010

045/1 AGRICULTURE
PAPER ONE
2 HOURS

NAME (CAPITAL LETTERS):

INDEX NUMBER **SIGNATURE**.....

INSTRUCTIONS

Read these instructions carefully before attempting the questions.

1. This paper consists of 30 multiple choice questions and 5 structured questions, all compulsory (80 marks).
2. Answers to the multiple choice questions must be written in the boxes provided on the right hand side corresponding to each question; and that of the structured questions in the spaces provided on the question paper.
3. No extra sheet of papers shall be provided.

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

1. The following three species are suitable for agro forestry except.

- A. Eucalyptus
- B. Teak
- C. Albizia
- D. Leucaena

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2. Which one of the following is the normal range of body temperature for cattle?

- A. 38.5°C - 40°C
- B. 37.5°C - 39.5°C
- C. 35.5°C - 40.5°C
- D. 38°C - 40°C

☐

3. The process of transferring people from densely populated areas to sparsely populated areas is called

- A. Immigration.
- B. Migration.
- C. Settlement.
- D. Resettlement.

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4. The following are associated with land reclamation except

- A. Deforestation.
- B. Desertification.
- C. Irrigation.
- D. Afforestation.

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5. Which of the following is **not** classified as a risk in farming?

- A. Price fluctuation.
- B. Farmers health.
- C. Pest and disease outbreak.
- D. Weather changes.

☐

6. Hot water treatment is given to banana suckers before planting in order to

- A. stimulate root development.
- B. control banana weevils.
- C. control banana nematodes.
- D. encourage the development of fresh suckers.

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7. Cassava mosaic is caused by

- A. bacteria.
- B. virus.
- C. fungus.
- D. insects.

☐

8. Which one of the following livestock equipments is used for testing for mastitis?

- A. Drenching gun.
- B. Strip cup.
- C. Syringe.
- D. Strainer element.

☐

9. Which one of the following is the difference between cheese and ghee?

- A. Cheese is a solid while ghee is a liquid at room temperature.
- B. Cheese is made from whole milk while ghee is made from butter.
- C. Cheese is obtained from pasteurised milk while ghee is made from unpasteurized milk.
- D. Cheese has a lower human nutritive value than ghee.

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10. In ruminants, the digestion of carbohydrates begins in the

- A. abomasum.
- B. mouth.
- C. Rumen.
- D. Reticulum.

☐

11. In a production function the marginal product is zero at a point when

- A. the additional input does not produce any more additional outputs.
- B. additional input to produces more outputs.
- C. additional input produces negative returns.
- D. additonal input declines.

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12. Which one of the following may be used to raise the pH of the soil?

- A. Sulphate of ammonia.
- B. Lime.
- C. N P K.
- D. Farm yard manure.

☐

13. Which one of the following soil conservation measures may be used effectively to control sheet erosion?

- A. Bench terracing.
- B. Crop rotation.
- C. Contour ploughing.
- D. Mulching.

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14. The following factors influence the supply of a commodity in the market except.

- A. Price of related goods.
- B. Number of sellers in the market.
- C. Number of buyers in the market.
- D. The price of the commodity.

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15. Which one of the following is the best site for a fish pond?

- A. Where water flows gently from the source.
- B. Where the land is flat and swampy.
- C. Where the soils are sandy.
- D. Near a lake.

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16. In a business transaction, an invoice is

- A. a document issued when goods are delivered on cash payment.
- B. a request to a firm to supply specified goods.
- C. a record kept by the seller to track the goods sold off.
- D. a document issued on goods sold on credit.

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17. The following are the reasons for treating farm water except

- A. to destroy pathogens.
- B. to increase its mineral content.
- C. to remove unacceptable smells.
- D. to remove sediments.

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18. Which one of the following features is not true of vegetative propagation crops?

- A. They are less affected by pests and diseases than their parents.
- B. Their yields are similar to that of their parents.
- C. They mature earlier than those propagated by seed.
- D. They are less drought resistant than those by seeding.

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19. Continuous cultivation of land is not recommended because it destroys the soil.

- A. profile.
- B. structure.
- C. texture.
- D. drainage.

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20. Which one of the following is not an advantage of the deep liter system of keeping poultry?

- A. More birds can be kept in a given area.
- B. Vices can be easily controlled.
- C. Birds are protected from bad weather conditions.
- D. It is easy to monitor the performance of the birds.

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21. Milk let down refers to

- A. the removal of milk from the milk secretory cells to the lower part of the udder.
- B. the removal of milk through the teats into a container.
- C. interruption on the milking process by the secretion of adrenetive hormone.
- D. failure of milk secretion because of inadequate production of the oxytocin hormone.

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22. The Gross margins for various enterprises in the farm can be determined by

- A. Subtracting the total variable costs from the total revenue.
- B. Subtracting the total fixed costs from the total revenue.
- C. Subtracting the total costs from the total revenue.
- D. Subtracting revenue from one enterprise from the total revenue of the farm.

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23. Which one of the following is a remedy for price fluctuations of agricultural products?

- A. Trade liberization.
- B. Diverstification.
- C. Sepecialization.
- D. Large scale production.

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24. In cattle a disease that causes sudden death with a blown up stomach, and blood coming out of the body openings is likely to be

- A. Brucellosis.
- B. Contagious Bovine pleuro Pneumonia.
- C. Anthrax.
- D. Tuberculosis.

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25. Which one of the following statements is true of mitosis?

- A. The number of chromosomes remains the same in each cell after cell division.
- B. The number of chromosomes is halved in each cell after cell division.
- C. It occurs during the production of reproductive cells.
- D. Mitosis results in the production of four daughter cells.

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26. Which one of the following is the correct distinction between hybrid maize and composite maize seeds?

- A. Hybrid maize seeds are smaller than composite maize seeds.
- B. Fresh hybrid maize seeds have to be planted every growing season while composite maize seeds can be taken from the previous crop.
- C. Hybrid maize seeds generally yield lower than composite maize seeds.
- D. Hybrid maize is more tolerant to drought than composite maize.

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27. A burdizzo is an implement used for

- A. Putting identification marks on cattle.
- B. Administering oral drugs to cattle.
- C. Castrating bulls.
- D. Restraining animals.

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28. Which one of the following statements is true of predators?

- A. They attack more than one host.
- B. They live inside their hosts.
- C. They cause diseases that kill their host.
- D. They are well adapted to the host environment.

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29. Opportunity cost may be defined as of the cost of establishing as:

- A. The cost of establishing a new business.
- B. The value of resources given up as a result of choosing its next best alternative.
- C. Hidden costs in a production process.
- D. Costs must be met irrespective of the level of production.

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30. A mould board plough is the most suitable implement to use in.

- A. hard soils with many stores.
- B. Heavy soils.
- C. Sandy soils.
- D. Swampy soils.

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SECTION B

31. (a) Outline the importance of forests.

5 marks

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

(b) Suggest 5 indicators to show that a natural pasture is in need of improvement.

5 marks

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

32. (a) Give 5 precautions to be taken to ensure effectiveness of herbicide application. **5 marks**

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

(b) Give 4 reasons why weeds often out compete planted crops. **5 marks**

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____

33. (a) Outline 5 ways in which infectious diseases can spread within a livestock herd. **5 marks**

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

(b) State 5 abnormalities that occur in eggs of poultry. **5 marks**

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

34. (a) Give 5 limitations of using live fencing on farmland. **5 marks**
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____
- (b) Outline 5 qualities of a good animal. **5 marks**
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____
35. (a) Give 5 measures that could be taken to reduce the effect of price fluctuations on the farmer. **5 marks**
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____
- (b) State 5 sources of agricultural credit in Southern Sudan. **5 marks**
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____

END