



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

045/1
AGRICULTURE
PAPER ONE
2 hours

SOUTH SUDAN CERTIFICATE OF SECONDARY EDUCATION(SSCES) EXAMINATIONS

Nov/Dec, 2011

AGRICULTURE
PAPER ONE

TIME: 2 HOURS

INSTRUCTIONS

Read the instructions carefully before answering any question

- 1. This paper consists of 30 multiple choice questions and 5 structured questions. All are compulsory.*
- 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 sheets of papers shall be provided.*

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

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SECTION A

1. Which of the following part of ruminant digestion is responsible for breaking food particles into small bits?

- A. Abomasum.
 - B. Rumen.
 - C. Reticulum.
 - D. Omasum.

2. The control of rhizomatous weeds is best achieved by use of

- A. Spraying with non selective herbicides.
 - B. Digging up the rhizomes.
 - C. Using systemic herbicides.
 - D. Burning the weed.

3. Soil structure refers to

- A. The relative amounts of the different soil particle sizes.
 - B. The binding of soil particles.
 - C. How resistant soil is to soil erosion.
 - D. The amount of soil particles compared to other components in the soil.

4. The following factors encourage cannibalism in poultry

- A. Amount of light in the poultry house.
 - B. Amount of space per bird in the poultry house.
 - C. Absence of exercise in the poultry house.
 - D. The breed of poultry.

5. Overhead irrigation is preferred in areas with

- A. Irregular landscape.
 - B. Gentle slopes.
 - C. Irrigation water is scarce.
 - D. Soils are heavy.

6. Administration of liquid drugs through the mouth is best done by using

- A. Hypodermic needle.
 - B. Drenching gun.
 - C. Stir-up pump.
 - D. Bolus gun.

7. Nitrogen fertilizers are not normally applied to a grass-legume mixed pasture because

- A. Grass may grow to suppress the legumes.
- B. Legumes fix sufficient nitrogen for the pasture.
- C. Nitrogen may become toxic to the legumes.
- D. Nitrogen suppresses the uptake of essential nutrients for the pasture.

☐

8. Poultry manure is preferred to other types of manure because it

- A. is cheap and easily available.
- B. is easy to apply.
- C. has higher Nitrogen content.
- D. contains no harmful bacteria.

☐

9. The term opportunity cost refers to

- A. Revenue forgone as a result of producing one product in the place of a competitive product.
- B. The cost of producing a product compared to the revenue got from it.
- C. Unforeseen costs resulting from the production of a new commodity.
- D. Additional revenue as a result of producing one product in the place of another product.

☐

10. Which of the following best describes cross breeding?

- A. Crossing of two unbred lines.
- B. Mating of off springs from different families.
- C. Crossing of animals within the same breed.
- D. Mating animals with different characteristics

☐

11. Which one of the following statements is true of meiosis?

- A. The number of chromosomes remain the same in each cell after cell division.
- B. The number of chromosomes is halved in each cell after cell division.
- C. It occurs in somatic cells only.
- D. It results in the production of two identical daughter cells.

☐

12. Which one of the following is true of the diesel engine?

- A. They have a carburettor.
- B. There is a spark plug.
- C. They have injector pumps.
- D. Air and fuel mixture is fed into the cylinder for combustion.

☐

13. The pH of soil may be lowered by application of.

- A. Lime.
- B. Farm yard manure.
- C. Sulphate of Ammonia.
- D. Single superphosphate.

☐

14. The following are advantage of trickle irrigation except.

- A. Loss of water through evaporation is minimized.
- B. Weed growth is discouraged.
- C. There are more chances of salt accumulation with root zone.
- D. It requires little attention after installation.

☐

15. In ruminant, digestion of protein begins in the.

- A. Rumen.
- B. Omasum.
- C. Reticulum.
- D. Abomasums.

☐

16. During the induction stroke of a 4 stroke engine, the piston moves,

- A. downwards and both valves are closed.
- B. upwards and the outlet valve is open.
- C. downwards and the inlet valve is open.
- D. upwards and both valves are closed.

☐

17. The late blight of tomatoes is caused by

- A. virus.
- B. bacteria.
- C. too much rain.
- D. fungus.

☐

18. The following is true of parasites except

- A. They require more than one host.
- B. They are host specific.
- C. They are well adapted to the host environment.
- D. Their life cycle is longer than that of their host.

☐

19. Which one of the following determines the price of a commodity in the open market?

- A. The cost of production.
- B. Supply and demand.
- C. Number of buyers in the market.
- D. Cost of transport.

☐

20. Which one of the following is true of supplementary products?

- A. Increase in the production of one does not affect the production of the other.
- B. Production of one product decreases by the production of the other.
- C. Increase in the production of one automatically increases the production of the other.
- D. They require the same resources.

☐

21. The shell of an egg is produced in the

- A. Magnum.
- B. Uterus.
- C. Isthmus.
- D. Infundibulum.

☐

22. Anthrax is caused by

- A. Bacteria.
- B. Virus.
- C. Protozoan.
- D. Nematodes.

☐

23. A cow that shows high fever, excessive production of saliva, dullness and swelling of lymph glands is likely to be suffering from

- A. Brucellosis.
- B. Mastitis.
- C. Rinderpest.
- D. East Coast fever.

☐

24. The following are advantages of rotovators except

- A. They break the soil hard pan.
- B. Prepare a fine filth ready for planting in one operation .
- C. Incorporate surface trash into the soil.
- D. Break up large clods.

☐

25. Synthetic crop varieties are preferred for most farmers in the Sudan because

- A. They produce higher yields than other varieties.
- B. They are less affected by pests and diseases.
- C. The are more drought resistant.
- D. Seeds produced by farmers can be replanted.

☐

26. Stocking rate refers to the number of

- A. animals per unit of pasture.
- B. days a pasture is rested before regrazing.
- C. paddocks available for grazing.
- D. animals on the farm.

☐

27. Which one of the following hormones suppresses milk let-down in lactating cows?

- A. Oestrogen.
- B. Prolactin.
- C. Adrenalin.
- D. Oxytocin.

☐

28. In production, the cost of feed is

- A. fixed cost.
- B. marginal cost.
- C. implicit cost.
- D. variable cost.

☐

29. Which one of the following is classified as an uncertainty in a production process?

- A. Price fluctuation.
- B. Weather changes.
- C. Pest and Disease outbreak.
- D. Accidents to Employees.

☐

30. Small seeds are planted at a shallower depth because

- A. they need some light in order to germinate.
- B. their food reserves may be exhausted before germination.
- C. plant nutrients are concentrated on the soil surface.
- D. it is easier to monitor their viability at a shallow depth.

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SECTION B

31 (a) Give 5 benefits of drainage in agricultural production

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

(b) State 2 advantages and 3 disadvantages of sub-surface drainage

Advantages

- (i) _____

- (ii) _____

Disadvantages

- (i) _____

- (ii) _____

- (iii) _____

32 (a) Give 5 reasons for tilling land before planting

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

(b) State 5 characteristics of a good site for the construction of nursery seedbed

(i) _____

(ii) _____

(iii) _____

(iv) _____

(v) _____

33 (a) Distinguish between Farmyard manure and compost manure.

(b) Give 5 contribution of organic matter in soil productivity.

(i) _____

(ii) _____

(iii) _____

(iv) _____

(v) _____

34. (a) Give 3 advantages and 2 disadvantages of the deep litter system of poultry rearing.

Advantages

(i) _____

(ii) _____

(iii) _____

Disadvantages

(i) _____

(ii) _____

(b) State 5 methods of preventing vices in poultry houses

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

35 (a) State 5 functions of marketing.

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

(b) Give 5 characteristics of perfect competition in a market situation.

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

END