



EXAMINATIONS COUNCIL OF ESWATINI

Junior Certificate Examination

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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AGRICULTURE

516/01

Paper 1

October/November 2019

1 hours

READ THESE INSTRUCTIONS FIRST

The answer sheet has your name, Centre number and candidate number and it must be signed.

This paper consists of 40 multiple choice questions. **Four** possible answers are given for each question. Choose the **best** answer and shade your choice in the box provided under the correct letter in soft pencil **HB** on the separate Answer Sheet provided.

Read all questions carefully.

Answer **all** questions.

EXAMPLE: 41. How many days does a beetroot take from planting to harvesting?

- A. 10 - 30 days
- B. 30 - 60 days
- C. 60 - 90 days
- D. 90 - 120 days

41	A <input type="radio"/>	B <input type="radio"/>	C <input checked="" type="radio"/>	D <input type="radio"/>
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This document consists of **8** printed pages

1. Which farming practice involves raising animals and producing crops in the same farm?
 - A. crop rotation
 - B. intercropping
 - C. mixed cropping
 - D. mixed farming
2. Which group of crops should follow a legume in a crop rotational programme?
 - A. bulb vegetable
 - B. fruit vegetable
 - C. leafy vegetable
 - D. root vegetable
3. Which agricultural policy ensures proper disposal of farm chemicals?
 - A. environmental policy
 - B. forest policy
 - C. livestock policy
 - D. water policy
4. What is the name of a person who plant and manages trees?
 - A. agronomist
 - B. botanist
 - C. entomologist
 - D. forester
5. Which tool is used for transplanting seedlings?
 - A. hand fork
 - B. hoe
 - C. spade
 - D. trowel
6. In which region of Eswatini are we likely to have crops affected by frost?
 - A. highveld
 - B. lowveld
 - C. lubombo
 - D. middleveld
7. Which disease can be avoided by removing mulch in developing seedlings?
 - A. black rot
 - B. damping-off
 - C. late blight
 - D. leaf curl
8. Which process is responsible for regulating the plant temperature?
 - A. absorption
 - B. photosynthesis
 - C. respiration
 - D. transpiration

9. What is the process of applying fertiliser while the plant is growing?
- A. basal dressing
 - B. fertiliser dressing
 - C. seed dressing
 - D. top dressing
10. Which soil texture has particle which are very small?
- A. clay
 - B. loam
 - C. sand
 - D. silt
11. How can a farmer maintain the soil structure?
- A. by adding fertilizer
 - B. by adding gypsum
 - C. by adding manure
 - D. by adding lime
12. What term describes the ability of soil to provide sufficient nutrients for plants?
- A. soil fertility
 - B. soil pH
 - C. soil structure
 - D. soil texture
13. Which farming practice has a potential of causing soil erosion?
- A. cultivation
 - B. harrowing
 - C. planting
 - D. weeding
14. Which land classes are used for grazing and tree planting?
- A. class I - II
 - B. class II -III
 - C. class III-IV
 - D. class VI-VII
15. Which activity describes the replanting of seeds where there was no germination?
- A. gap filling
 - B. planting
 - C. sowing
 - D. transplanting
16. How many hours should a chicken be starved before killing and dressing?
- A. 12 hours
 - B. 18 hours
 - C. 24 hours
 - D. 30 hours

17. Why do farmers store maize in a maize crib?
- A. to allow continuous drying
 - B. to protect it from weevils
 - C. to expose it to the sun
 - D. to protect it from thieves
18. How much insecticide is require to treat 15 bags of shelled grain when 0.5kg of insecticide is require to treat 10 bags of shelled grain?
- A. 750g
 - B. 100g
 - C. 150g
 - D. 500g
19. Which of the following can stop cannibalism in broilers?
- A. hanging greens for pecking
 - B. slaughtering the broilers
 - C. provide medication
 - D. remove the feathers
20. Figure 20.1 is a diagram of a poultry equipment.



Fig 20.1

What is the main function of this equipment in fig 20.1?

- A. provide feed
- B. provide vaccines
- C. provide vitamins
- D. provide water

21. Why is litter forked in broiler production?
- A. to prevent diseases build-up
 - B. to incorporate air in the litter
 - C. to prevent chickens from getting dirty
 - D. to prevent chickens pecking each other
22. Which name is given to a collection of beehives?
- A. apiary
 - B. colony
 - C. hive
 - D. swarm
23. Which member of a bee colony collect and transport nectar?
- A. drones
 - B. queen
 - C. retinue
 - D. workers
24. Which equipment is used to scratch out wax from the honeycombs?
- A. bee brush
 - B. hive tool
 - C. smoker
 - D. uncapping fork
25. Which of the following is an advantage of a Brahman?
- A. calve easily
 - B. matures quickly
 - C. resistant to diseases
 - D. produce more milk
26. Which cattle supplement have a high nutrient level?
- A. concentrates
 - B. foggage
 - C. hay
 - D. silage
27. Which management practice is used for identification in cattle?
- A. branding
 - B. castration
 - C. dehorning
 - D. deworming

28. Figure 28.1 shows the rabbits' digestive system.

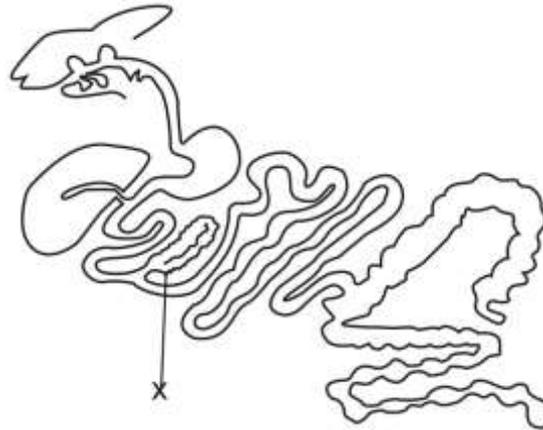


Fig. 28.1

What is the part labelled X?

- A. caecum
 - B. colon
 - C. liver
 - D. pancreas
29. Which breed of goats is kept for their wool?
- A. angora
 - B. boer
 - C. saanen
 - D. swazi
30. Which is the correct route for food in the digestive system of a goats?
- A. reticulum → rumen → abomasum → omasum
 - B. reticulum → rumen → omasum → abomasum
 - C. rumen → reticulum → abomasum → omasum
 - D. rumen → reticulum → omasum → abomasum
31. How often should a pasture be burnt?
- A. once every two years
 - B. once every three years
 - C. once every four years
 - D. once every five years

32. Which of the following is a characteristic of a cultivated pasture?
- A. has mixed species of grass
 - B. has only one type of grass
 - C. easily damaged by grazing
 - D. there is uneven growth of grass
33. Which farming practice reclaims polluted soils and degraded land?
- A. agroforestry
 - B. crop rotation
 - C. mixed cropping
 - D. permaculture
34. Which management practice in fruit tree production can result in high fruit losses, if not properly done?
- A. fertilisation
 - B. harvesting
 - C. pruning
 - D. thinning
35. What term describes changing the form of a farm product?
- A. advertising
 - B. grading
 - C. packaging
 - D. processing
36. Which is the correct sequence of a decision making process in a farm business?
- A. identify problem → analyse problem → describe problem → analyse solutions
 - B. identify problem → analyse solutions → describe problem → analyse problem
 - C. identify problem → describe problem → analyse problem → analyse solutions
 - D. identify problem → describe problem → analyse solutions → analyse problem
37. Why is it better to grow sorghum rather than maize in the Lowveld?
- A. birds in the Lowveld do not attack the crop
 - B. farmers in the Lowveld prefer sorghum to maize
 - C. it does not grow in other areas
 - D. it grows better than maize in drier areas
38. Which of the following is likely to be found in a vegetable diary?
- A. bank loan repayments
 - B. finances about the enterprise
 - C. total cost of the vegetables
 - D. varieties of the vegetables

- 39.** Which process describes the fusion of the male and female cells in flowering plants?
- A.** fertilisation
 - B.** fruiting
 - C.** pollination
 - D.** reproduction
- 40.** Which of the following vegetables should always be watered at the base of the plant?
- A.** beans
 - B.** cabbage
 - C.** lettuce
 - D.** tomato

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