



EXAMINATIONS COUNCIL OF ESWATINI  
Junior Certificate Examination

**AGRICULTURE**

**516/01**

**Paper 1**

**Specimen October/November 2024-2026**

**Total marks: 40**

**1 hour**

**READ THESE INSTRUCTIONS FIRST**

The answer sheet provided must have your name, centre number and candidate number and it must be signed after completion of the paper.

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. Which vegetable is classified as a leafy vegetable?

- A. beans
- B. beetroot
- C. lettuce
- D. onion

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 garden tool is used to prepare a fine tilth?
  - A fork
  - B hand fork
  - C rake
  - D spade
  
2. Which farming system produces crops and animals on a large scale for export?
  - A bartering farming
  - B cash farming
  - C commercial farming
  - D subsistence farming
  
3. Which of the following pests eat flowers in green beans?
  - A american bollworm
  - B aphids
  - C bean beetle
  - D CMR beetle
  
4. What is the main reason for raising a seedbed?
  - A check erosion
  - B improve drainage
  - C increase waterlogging
  - D make it neat
  
5. Which type of chemical is used to control damping-off?
  - A acaricides
  - B fungicides
  - C herbicides
  - D pesticides
  
6. Which of the following is essential to provide extra nitrogen in heap compost?
  - A bacteria
  - B maize stalk
  - C soil
  - D urea

7. Which soil texture is poorly drained?
- A clay
  - B loam**
  - C sand
  - D silt
8. What defines the arrangement of soil particles?
- A capping
  - B fertility**
  - C structure
  - D texture
9. Which minor nutrient is present in a basal dressing fertiliser?
- A boron**
  - B manganese
  - C molybdenum
  - D zinc
10. What is more likely to happen when animals and heavy machinery moves over soil that is too wet?
- A soil capping**
  - B soil compaction
  - C soil erosion
  - D soil waterlogging
11. How deep should be a fine tilth?
- A 0 – 5 cm**
  - B 5 – 6 cm
  - C 6 – 10 cm
  - D 10 – 15 cm
12. Why should mulch be removed as the seeds start to germinate?
- A to keep down weeds**
  - B to keep soil moist
  - C to prevent soil erosion
  - D to prevent weak seedlings

13. What is the main reason for intercropping?
- A growing several field crop varieties
  - B preventing pests and diseases spread
  - C providing correct spacing for crop
  - D providing insurance, if one crop fails
14. Which land class is more common along waterways?
- A Class I
  - B Class III
  - C Class V
  - D Class VII
15. What is controlled by using the legal planting date in cotton?
- A diseases
  - B harvesting
  - C planting
  - D weeds
16. Which crop is planted from vines?
- A butternut
  - B potatoes
  - C pumpkins
  - D sweet potato
17. Which field crop is stacked on poles to dry?
- A beans
  - B groundnuts
  - C sorghum
  - D tobacco
18. Why must the width of a maize crib **not** exceed two metres?
- A allows easy air flow between maize cobs
  - B avoids moisture getting into maize produce
  - C stops rats from climbing into the maize crib
  - D prevents insects flying to the maize crib

19. Which group of plants do moulds belong to?
- A bacteria
  - B fungi
  - C parasites
  - D virus
20. What is prevented by keeping grain tanks under shade?
- A insects and rodents from eating the grains
  - B mice and rats from eating the maize grains
  - C moulds building up and grain germination
  - D rodent from spreading insects into storage
21. Which system enhances the collection of clean eggs?
- A battery cage
  - B deep litter
  - C extensive
  - D semi-extensive
22. Which one is used to keep eggs warm in a hatchery?
- A brooder
  - B incubator
  - C nest-box
  - D ventilator
23. Why should the tube feeder's height be adjusted above the ground?
- A increase air circulation in poultry house
  - B increase bird pecking order in the house
  - C reduce the wastage of floor space and food
  - D reduce wetness of the feeding area
24. What term is used to describe the removal of non-laying birds?
- A cannibalism
  - B culling
  - C moulting
  - D pecking

25. Which poultry disease is caused by a parasite?
- A coccidiosis
  - B coryza
  - C merek's
  - D Newcastle
26. Which part of the root tip is responsible for the absorption of water?
- A root cap
  - B zone of cell differentiation
  - C zone of cell division
  - D zone of cell elongation
27. Which part of the flower contains the pollen grain?
- A anther
  - B filament
  - C petal
  - D stigma
28. Which part of a bean seed provides food to the developing embryo?
- A cotyledon
  - B endosperm
  - C plumule
  - D radicle
29. Which goat breed is likely to produce triplets and quadruplets?
- A Angora
  - B Boer
  - C Saanen
  - D Toggenburg
30. How long from kidding should a nanny be dewormed?
- A one hour
  - B one day
  - C one week
  - D one month

31. Which vitamin is in high amounts in night feaces?
- A A
  - B B
  - C E
  - D K
32. What causes poor breeding on Swazi Nation Land?
- A breeding season is too short
  - B fewer cows come on heat
  - C drying period of cows too long
  - D uncontrolled breeding
33. Which is the best breed in beef production?
- A Brahman
  - B Friesian
  - C Jersey
  - D Nguni
34. Which farming practice should be used when there is drought?
- A extensive grazing
  - B pastoral grazing
  - C rotational grazing
  - D zero grazing
35. Which marketing operation makes a product more attractive?
- A advertising
  - B assembling
  - C grading
  - D packaging
36. Which enterprise requires a short-term loan?
- A financing of tree- planting
  - B increasing the dairy herd
  - C payment of seasonal inputs
  - D purchasing of farm machinery

37. Which pasture grass is best for grazing especially in the lowveld?
- A couch grass
  - B guinea grass
  - C kikuyu grass
  - D weeping love grass
38. What term describes diseases that must reported to Veterinary Services immediately?
- A bacterial
  - B contagious
  - C infectious
  - D scheduled
39. Which animal feed is grazed by livestock?
- A concentrates
  - B foggage
  - C hay
  - D silage
40. Fig. 40.1 shows a bee-keeping equipment.



**Fig. 40.1**

What is the use of the equipment in **Fig. 40.1**?

- A calm bees
- B feed the bees
- C open hive
- D scrap wax cap