



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini General Certificate of Secondary Education

AGRICULTURE

Paper 1

6882/01

October/November 2024

1 hour

Additional Material: Calculator

Candidates answer:

All **forty (40)** Multiple Choice Questions on the answer sheet provided.

READ THESE INSTRUCTIONS FIRST

The answer sheet provided has your name, centre number and candidate number and must be signed after completing the paper.

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

Read all questions carefully
Answer **all** questions.

The number of marks is given in brackets [] at the end of each question or part of the question.

EXAMPLE: 41. Which of the following is an example of a ruminant animal?

- A chicken
- B rabbit
- C sheep
- D turkey

41	A <input type="radio"/>	B <input type="radio"/>	C <input checked="" type="radio"/>	D <input type="radio"/>
----	----------------------------	----------------------------	---------------------------------------	----------------------------

This document consists of **9** printed pages and **3** blank pages.

- 1 What is the contribution of agriculture to the family?
 - A food insecurity
 - B food security
 - C hunger
 - D poverty

- 2 Which of the following might be included in an extension programme as part of agricultural development?
 - A education on improved seeds
 - B provision of farm subsidies
 - C provision of food aid
 - D re-evaluation of job descriptions

- 3 Which of the following is the best method for the control of tick-borne diseases in livestock?
 - A isolation of livestock
 - B mandatory dipping
 - C movement control
 - D proper feeding

- 4 What is a direct result of becoming a child headed family due to HIV/AIDS?
 - A higher farming costs
 - B sale of farming land
 - C sale of farm output
 - D subsidised agricultural inputs

- 5 Which legislation promotes sustainable management of natural resources in Eswatini?
 - A crop movement act
 - B environment act
 - C forest policy
 - D water act

- 6 What could be the result of an input subsidy on maize farmers' income?
 - A constant income
 - B decreased income
 - C fluctuating income
 - D increased income

- 7 **Table 7.1** compares bags of fertiliser used (input) with bags of potatoes produced (output) over several years.

Year	Input (bags of fertiliser)	Output (bags of potatoes)
1	0	18
2	2	27
3	4	30
4	6	31
5	8	26
6	10	17

Which economic principle is illustrated by **Table 7.1**?

- A law of demand
 - B law of diminishing returns
 - C law of supply
 - D risk and uncertainty
- 8 What term describes the value of a foregone alternative enterprise?
- A fixed cost
 - B net worth
 - C opportunity cost
 - D variable cost
- 9 Which term refers to grouping baby vegetables according to set standards?
- A collection
 - B grading
 - C packaging
 - D sorting
- 10 Which term describes the amount of time a plant is exposed to light?
- A photoperiod
 - B photosynthesis
 - C phototaxis
 - D phototropism
- 11 Which of the following is a greenhouse gas?
- A hydrogen
 - B methane
 - C nitrogen
 - D oxygen

- 12** What is the result of using excess herbicides on a farm?
- A** compaction
 - B** eutrophication
 - C** leaching
 - D** pollution
- 13** Which gases primarily lead to the formation of acid rain?
- A** carbon dioxide and chlorine
 - B** carbon dioxide and methane
 - C** carbon dioxide and sulphur dioxide
 - D** chlorine and methane
- 14** What practice involves producing crops and livestock on the same farm?
- A** mixed cropping
 - B** mixed farming
 - C** permaculture
 - D** sustainable agriculture
- 15** How can surface runoff be reduced in a garden plot?
- A** add inorganic fertiliser
 - B** grow plants in trays
 - C** irrigate with watering can
 - D** use drip irrigation
- 16** What could be the proportion of organic matter in a loam soil?
- A** 3%
 - B** 10%
 - C** 25%
 - D** 45%
- 17** Which process refers to the reaction between water and chemical compounds in rocks?
- A** carbonation
 - B** exfoliation
 - C** hydrolysis
 - D** oxidation

18 Which soil type is most likely to lose nutrients through leaching?

- A clay loam
- B sandy clay
- C sandy loam
- D silty clay

19 Which term describes conversion of organic material into an inorganic form in the nitrogen cycle?

- A ammonification
- B denitrification
- C nitrification
- D nitrogen fixation

20 Which nutrient helps activate most enzymes in plants?

- A calcium
- B phosphorus
- C potassium
- D sulphur

21 Fig 21.1 shows a method of controlling soil erosion.



Fig 21.1

Which method of controlling soil erosion is shown in **Fig 21.1**?

- A contour ploughing
- B gabions
- C terracing
- D tie ridging

- 22** Which part of the stem transports water from the roots to the shoot?
- A** cambium
 - B** cortex
 - C** phloem
 - D** xylem
- 23** What is a disadvantage of carrying out artificial pollination in an orchard?
- A** genetic mutation is increased
 - B** it is very time consuming
 - C** larger fruit is produced
 - D** natural disease immunity is decreased
- 24** What could be an advantage of burning during land preparation?
- A** aeration of the top soil is improved
 - B** dense vegetation is removed
 - C** dormant seeds are prompted to grow
 - D** organic matter is removed from the soil
- 25** Which plant disease is caused by a virus?
- A** damping-off
 - B** maize streak
 - C** potato blight
 - D** wilt of tomatoes
- 26** Which cultural practice is used to control crop specific weeds over time?
- A** crop rotation
 - B** cultivating the soil
 - C** early planting
 - D** using herbicides
- 27** What is the end product of microbial fermentation in the digestive system of a ruminant?
- A** amino acids
 - B** fatty acids
 - C** hydrochloric acid
 - D** volatile fatty acids

- 28** What is the function of the seminal fluid in a bull's reproductive system?
- A** it promotes the mating period
 - B** it provides sperms with nutrients
 - C** it stimulates the penis to erect
 - D** it stimulates spermatogenesis
- 29** Which hormone is responsible for maintaining the uterus during pregnancy?
- A** oestrogen
 - B** progesterone
 - C** relaxin
 - D** testosterone
- 30** Why would cattle be fed supplements?
- A** to avoid nutrient shortages
 - B** to dry off cows
 - C** to prevent contagious diseases
 - D** to stimulate onset of heat
- 31** What is a result of rotational grazing?
- A** animals have fewer parasites
 - B** low stocking rates are possible
 - C** risk of soil erosion is increased
 - D** selective grazing is encouraged
- 32** Which of the following is a succulent roughage?
- A** fodder
 - B** foggage
 - C** hay
 - D** silage
- 33** Which nutrient promotes the formation of red blood cells in livestock?
- A** calcium
 - B** copper
 - C** iron
 - D** magnesium

34 Fig 34.1 shows a farm structure used to control ticks in cattle.



Fig 34.1

What name is given to the structure in Fig 34.1?

- A crush
- B dipping tank
- C spray race
- D turn-over crate

35 What could be a reason for calibrating a sprayer?

- A as check for leaks in the sprayer
- B to enable thorough mixing of chemical
- C to lubricate the sprayer pump
- D to prevent chemical wastage

36 How can a saw be maintained to last longer?

- A grease the saw blade
- B paint the saw blade
- C store the saw in a humid place
- D wash the blade after use

37 What could be an advantage of roofing animal houses with metal sheets?

- A they are a good insulation material
- B they are very durable material
- C they conduct electricity from building
- D they provide a protective layer of rust

38 Fig 38.1 shows an incomplete wire fence.

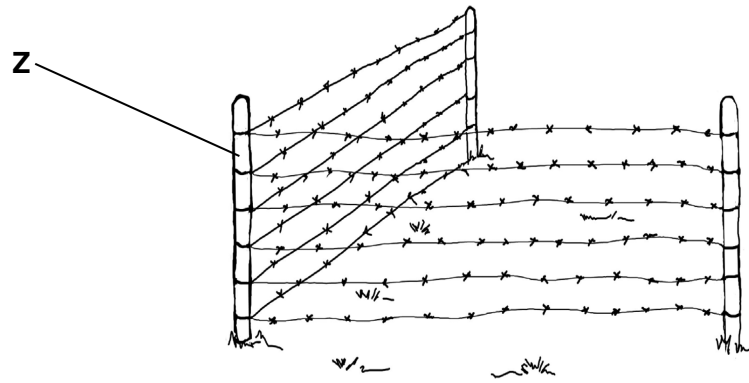


Fig 38.1

Which type of posts could secure the post labelled Z on Fig 38.1?

- A droppers
- B standards
- C strainers
- D struts

39 Why should the concrete floor in a livestock building have a rough surface?

- A to improve drainage
- B to increase durability
- C to make cleaning easier
- D to prevent animals slipping

40 Which technological advance prevents wastage of water in irrigation?

- A drones
- B GPS
- C robots
- D timers

