



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini Prevocational Certificate of Secondary Education

AGRICULTURAL TECHNOLOGY

5920/01

Paper 1 Multiple choice

October/November 2024

Total: 40 marks

1 hour

Additional material: Calculator

INSTRUCTIONS:

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 given 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.

EXAMPLE:

41 What is the name of a female pig?

- A boar
- B flock
- C sow
- D swine

41	A <input type="radio"/>	B <input type="radio"/>	C <input checked="" type="radio"/>	D <input type="radio"/>
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For Examiner's Use	
Marks	

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

Answer **all** questions in this section **(40 marks)**

- 1 Why should a poultry house be well ventilated?
 - A to provide fresh air
 - B to provide humidity
 - C to provide light
 - D to provide warm air

- 2 What is the purpose of placing a foot bath at the entrance of a poultry house?
 - A to control predators
 - B to prevent bad smell
 - C to prevent diseases
 - D to provide water

- 3 What is the ideal time to disinfect a poultry house before arrival of new stock?
 - A 3 days
 - B 5 days
 - C 1 week
 - D 2 weeks

- 4 When do layers reach point of lay?
 - A 6–10 weeks
 - B 12–17 weeks
 - C 18–22 weeks
 - D 24–26 weeks

- 5 How many broilers should be housed in a poultry house measuring 16 m² in the Highveld?
 - A 140 birds
 - B 160 birds
 - C 180 birds
 - D 200 birds

- 6 At which stage of growth in broilers is the mortality rate high?
 - A adult period
 - B brooding period
 - C growing period
 - D incubation period

- 7 What is the purpose of scalding a newly killed chicken?
 - A for easy cleaning of carcass
 - B to allow the chicken to bleed
 - C to improve carcass quality
 - D to remove feathers easily

- 8 Which of the following is a characteristic of a duroc breed.
- A deep rusty colour
 - B large straight ears
 - C short dished face
 - D straight pricked ears
- 9 How many functional teats should a gilt selected for breeding have?
- A 9
 - B 10
 - C 11
 - D 12
- 10 Which symptom is used to identify coccidiosis in piglets?
- A discolouration of ears and abdomen
 - B high fever and reddened eyes
 - C huddling and constipation
 - D watery yellowish diarrhoea
- 11 Which characteristic is considered when selecting a billy for breeding?
- A must have functional teats
 - B must have well developed udder
 - C must have strong and good feet
 - D must have one testicle
- 12 Which is the longest range of heat period in goats?
- A 12–21 hours
 - B 12–28 hours
 - C 12–48 hours
 - D 12–58 hours
- 13 Which of the following is a sign of kidding in a nanny?
- A enlargement of the vulva
 - B mounting other goats
 - C standing to be mounted
 - D wagging of tail frequently
- 14 Which vegetable group does onion belong to?
- A bulb
 - B fruit
 - C legume
 - D root

- 15 What is the advantage of drilling over broadcasting when applying fertiliser?
- A covers a large area
 - B fast and easy to apply
 - C reduces weed growth
 - D good for dense plant stand
- 16 Why should a seed tray be covered with a clear plastic wrap after sowing?
- A to increase nutrients in the soil
 - B to maintain moisture in the soil
 - C to prevent growth of weeds
 - D to protect plants from rainfall
- 17 Which management practice reduces competition among seedlings in a seedbed?
- A mulching
 - B thinning
 - C topdressing
 - D watering
- 18 Which is a sign of early blight in plants?
- A dark brown or black spot on leaves
 - B dark green on edges of the leaves
 - C lower leaves turn yellow
 - D lower leaves shrivel
- 19 Which method of pest and disease control in plants involves resistant varieties?
- A biological
 - B chemical
 - C cultural
 - D integrated
- 20 Which of the following is a major plant nutrient?
- A boron
 - B molybdenum
 - C phosphorus
 - D zinc

21 Fig. 21.1 shows a tree propagated vegetatively.

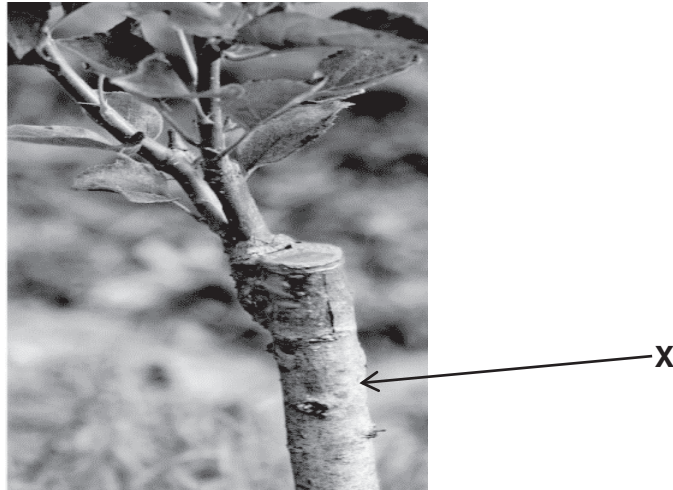


Fig 21.1

What is the part labelled X?

- A cutting
 - B graft
 - C rootstock
 - D scion
- 22 Which irrigation system promotes leaching of nutrients in the soil?
- A basin
 - B drip
 - C furrow
 - D sprinkler
- 23 Which fencing post is susceptible to damage by termites?
- A concrete
 - B metal
 - C steel
 - D wood
- 24 Which type of fence protects crops from strong wind?
- A barbed wire
 - B diamond mesh
 - C live fence
 - D veldspan

25 Which farm implement is used in secondary tillage to create a suitable tilth?

- A disc harrow
- B disc plough
- C mouldboard plough
- D planter

26 What is the use of a blower in landscaping and turf care?

- A for aerating the soil
- B for breaking up soil
- C for removing dead leaves
- D to cut grass from the standing position

27 Fig. 27.1 shows a lawn management practice.



Fig. 27.1

Why is the management practice shown in Fig. 27.1 done on lawns?

- A to control pests and diseases
- B to improve aeration
- C to keep the lawn short
- D to remove dead grass

28 Fig. 28.1 shows a feature of ornamental gardens.



Fig. 28.1

What is the feature shown in Fig. 28.1 called?

- A a conservatory
 - B a rockery
 - C a topiary
 - D an adornment
- 29 Why is it important to sterilize soil mixtures?
- A to kill pests and diseases
 - B to improve soil fertility
 - C to promote drainage
 - D to improve aeration
- 30 Which item is used to construct a floral design?
- A bark
 - B gravel
 - C pebbles
 - D tape

31 Fig. 31.1 shows clothing used in apiculture.



Fig. 31.1

What is the function of the clothing in Fig. 31.1?

- A to keep bees from skin
 - B to mask out smell
 - C to prevent smoke inhalation
 - D to act as a sunscreen
- 32 At what age do worker bees guard the hive?
- A 2–3 days
 - B 11–13 days
 - C 14–17 days
 - D 18–21 days
- 33 What causes swarming in honeybees?
- A overcrowding
 - B scarcity of feed
 - C unsuitable brood frames
 - D weather conditions
- 34 Which pest affects bees directly?
- A ants
 - B beetle
 - C varroa mites
 - D wax moths
- 35 What is the purpose of placing harvested honey in the sun before processing?
- A to liquefy honey
 - B to enhance skimming
 - C to melt wax
 - D to remove ants

36 Fig. 36.1 shows different fish species.

Which fish species is a catfish?

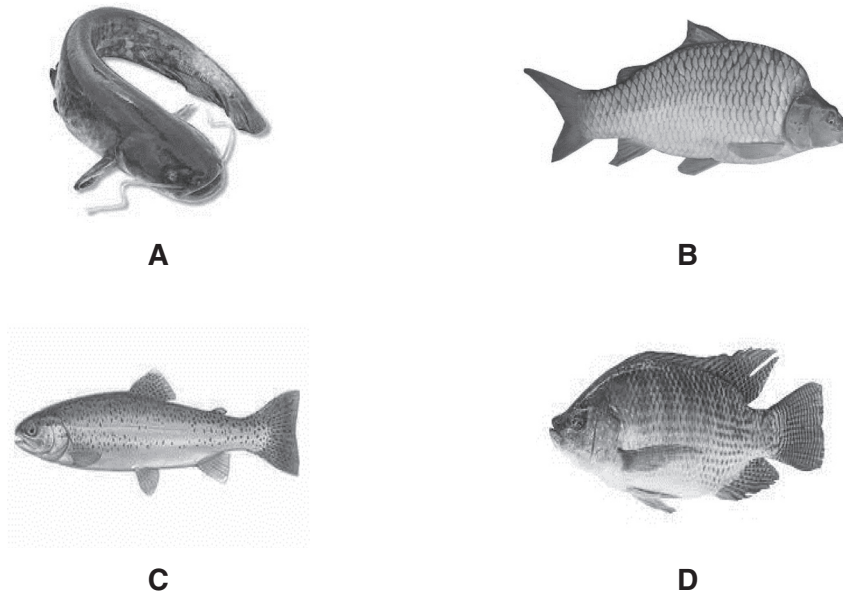


Fig. 36.1

37 Which of the following fish species is highly prolific and docile?

- A carp fish
- B catfish
- C tilapia
- D trout

38 What is the recommended pH for a fish water pond?

- A 4.5–5
- B 5.5–6
- C 6.5–9
- D 9.5–11

39 Which factor of water quality causes fin rot?

- A high bacterial contamination
- B high light penetration
- C high nitrate levels
- D high oxygen levels

40 Which fish preservation method maintains the original flavour of the fish?

- A canning
- B freezing
- C salting
- D smoking

