



EXAMINATIONS COUNCIL OF ESWATINI
Eswatini Prevocational Certificate of Secondary Education

AGRICULTURAL TECHNOLOGY

5920/01

Paper 1 Multiple choice

October/November 2023

Total: 40 marks

1 hour

INSTRUCTIONS:

The answer grid consists of your Candidate Name, Centre Number and Candidate Number and 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 oval under the correct letter in soft pencil **HB** on the separate multiple choice Answer Grid provided.

You may use a calculator

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 (40 marks)

Choose the **best** answer in each question and shade the oval under the letter that corresponds with your answer on the grid provided.

1 Which is a necessary feature of a poultry house which is used for layers kept in cages?

- A corrugated iron roof
- B earth floor
- C proper ventilation
- D strong brick walls

2 Fig. 2.1 shows a sick chicken



Fig. 2.1

Which disease is shown by the chicken in **Fig. 2.1**?

- A coccidiosis
- B coryza
- C fowl pox
- D Newcastle

3 What term describes the removal of non-laying birds from the flock?

- A cannibalism
- B culling
- C moulting
- D pecking

- 4 What is the correct stocking rate for broilers?
- A 5 birds per m²
 - B 10 birds per m²
 - C 15 birds per m²
 - D 20 birds per m²
- 5 Which type of records show daily events in broiler production?
- A diary records
 - B financial records
 - C production records
 - D progress records
- 6 Which of the following is required by newly born piglets?
- A creep feed
 - B iron injection
 - C vaccine
 - D warmth
- 7 Which management practice in pigs is used to increase weight at weaning?
- A castration
 - B creep feeding
 - C tail docking
 - D teeth trimming
- 8 Which breed of goat is kept to yield a high level of milk production for human consumption?
- A Angora goat
 - B Boer goat
 - C Eswatini goat
 - D Saanen goat
- 9 Why is dehorning important when keeping goats?
- A horns are very heavy for goats
 - B they appear good without horns
 - C they grow fast after dehorning
 - D to prevent injuries among goats

- 10 Which disease affects goats when they spend a lot of time on wet ground?
- A foot rot
 - B pneumonia
 - C pulpy kidney
 - D red water
- 11 What is intra-venous injection in goats?
- A injecting into the muscle
 - B injecting into the vein
 - C injecting under the skin
 - D injecting under the vein
- 12 What is the reason for including legumes in a crop rotation?
- A legumes bind soil particles together
 - B legumes improve soil fertility
 - C legumes increase the soil pH
 - D legume secrete chemical against plant diseases
- 13 Why should the width of a seedbed be 1 metre?
- A to conserve irrigational water
 - B to enable correct plant spacing
 - C to minimise stepping on seedbed
 - D to prevent spread of diseases
- 14 What term describes the transfer of seedlings from the seedbed to the plot?
- A replanting
 - B sowing
 - C thinning
 - D transplanting
- 15 What is the practice of covering the soil surface with a layer of material called?
- A fertilising
 - B layering
 - C mulching
 - D thinning

- 16 Which pest attacks plants by sucking sap from their phloem?
- A aphids
 - B cutworm
 - C stalk borer
 - D weevil
- 17 Which of the following is a symptom of early blight in tomatoes?
- A black spots on leaves
 - B brown streaks inside stem
 - C older leaves turn purple
 - D yellowing of lower leaves
- 18 What is an advantage of intercropping?
- A it controls pests and diseases
 - B it controls soil pollution
 - C it controls weed growth
 - D it improves the structure of the soil
- 19 Why is it important to apply a tree sealer after pruning fruit trees?
- A to encourage suckers
 - B to prevent dehydration
 - C to prevent entry of water
 - D to prevent infection
- 20 Why should tree seedlings be staked?
- A to encourage growth of seedlings
 - B to prevent seedlings from wind damage
 - C to protect seedlings from animals
 - D to support the seedlings with heavy fruits
- 21 What term describes the removal of branches on a tree to encourage new growth?
- A budding
 - B grafting
 - C layering
 - D pruning

- 22** What is the disadvantage of using furrow irrigation when planting fruit trees?
- A** it encourages the spread of disease
 - B** pipes may become blocked
 - C** soil erosion may occur
 - D** there is a high maintenance cost
- 23** What is a feature of minimum tillage?
- A** adding organic matter to the soil
 - B** causing little disturbance of the soil
 - C** ploughing across the slope
 - D** ploughing the soil at 30 cm depth
- 24** Which of the following contributes to soil pollution?
- A** excessive use of herbicides
 - B** excessive use of irrigation
 - C** extensive cultivation
 - D** planting down the slope
- 25** Which farming practice is used to reclaim degraded land?
- A** agroforestry
 - B** crop rotation
 - C** intercropping
 - D** mixed farming
- 26** Which fencing material is likely to be attacked by termites?
- A** concrete
 - B** metal
 - C** steel
 - D** wood
- 27** At what depth in the ground should a corner fencing post be placed?
- A** 40 cm
 - B** 50 cm
 - C** 60 cm
 - D** 70 cm

- 28 Which of the following implements is used to produce a coarse tilth?
- A disc harrow
 - B disc plough
 - C jab planter
 - D mouldboard
- 29 Which landscaping material is organic?
- A bark
 - B gravel
 - C pebbles
 - D quarry
- 30 Which irrigation method is suitable to use on lawn / turf?
- A basin
 - B drip
 - C furrow
 - D sprinkler
- 31 Which equipment is used for dead-heading?
- A edging irons
 - B pruning shears
 - C secateurs
 - D trimmers
- 32 What is the practice of growing and marketing flowers?
- A apiculture
 - B aquaculture
 - C floriculture
 - D horticulture
- 33 Which part of a Langstroth hive contains top-bar frames?
- A bottom board
 - B honey super
 - C outer cover
 - D queen excluder

- 34 What is the function of drones in a bee colony?
- A to collect nectar
 - B to collect pollen
 - C to mate with queen
 - D to produce pheromones
- 35 How many eggs can a queen bee lay in a day?
- A 1500
 - B 2500
 - C 3500
 - D 4500
- 36 What is the practice of feeding bees during the winter period?
- A ad libitum feeding
 - B manipulative feeding
 - C stimulative feeding
 - D supplementary feeding
- 37 What important nutrient does fish provide to humans?
- A carbohydrates
 - B magnesium
 - C proteins
 - D zinc
- 38 Which practice promotes the growth of algae in a pond?
- A cleaning the pond
 - B draining the pond
 - C drying the pond
 - D fertilising the pond
- 39 Why should vegetables be immersed in hot water before feeding them to fish?
- A to add flavour to the vegetables
 - B to make vegetables easier to digest
 - C to preserve the colour of vegetables
 - D to slow the breakdown of nutrients in vegetables

40 Fig. 40.1 shows a fish infected by a disease.

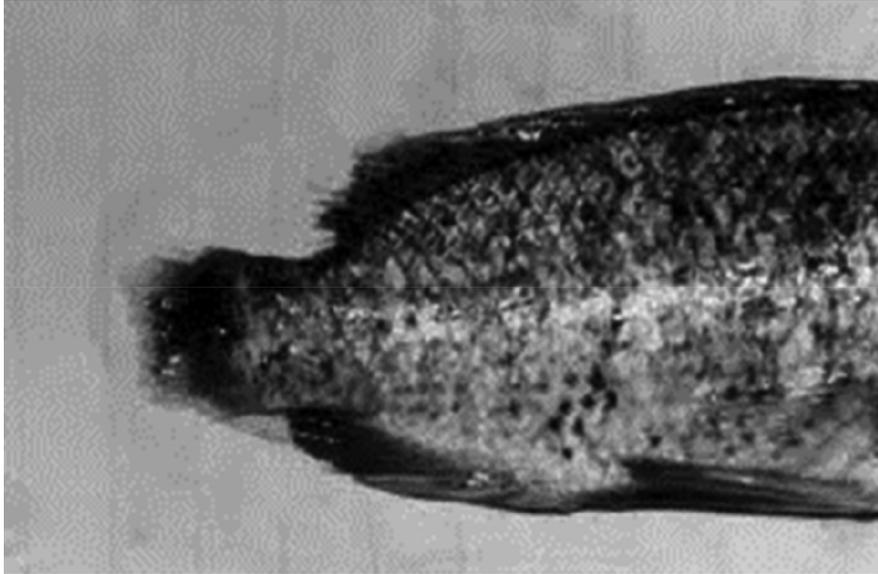


Fig. 40.1

How can the disease in **Fig 40.1** be controlled?

- A by decreasing the pH of water
- B by decreasing the water temperature
- C by fertilising the pond
- D by increasing the pH of water

