



AGRICULTURAL TECHNOLOGY

5920/01

Paper 1 Multiple choice

October/November 2022

Total: 40 marks

1 hour

INSTRUCTIONS:

The answer grid consist of your 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 **8** printed pages.

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

Choose the **best** answer in each question and shade your choice in the oval under the correct letter on the answer sheet provided.

- 1 What action should be taken to prevent the spread of diseases from a poultry house?
 - A close all windows of the house
 - B place a footbath with disinfectant inside the door of the house
 - C place a footbath with disinfectant outside the door of the house
 - D place fans inside the house

- 2 Which structure is included in a poultry house for the hens to roost on?
 - A cages
 - B nest box
 - C perches
 - D troughs

- 3 How many times a day should eggs be collected in the deep litter system?
 - A 2 to 3 times
 - B 4 to 5 times
 - C 5 to 6 times
 - D 7 to 8 times

- 4 What is the monthly laying percentage of 100 layers that have laid 1800 eggs in 30 days?
 - A 40%
 - B 50%
 - C 60%
 - D 70%

- 5 Which disease of chickens is characterised by watery droppings with blood?
 - A coccidiosis
 - B coryza
 - C fowl pox
 - D Newcastle

- 6 Calculate the maximum number of chickens that can be kept in a 20m by 20m house if each bird requires 0.2 m²
 - A 80
 - B 100
 - C 200
 - D 2000

- 7 What indicates an ideal temperature in the brooding area?
- A chicks crowd together under the brooder
 - B chicks move away from the brooder
 - C chicks play around and feed well
 - D chicks play close to the brooder
- 8 What indicates a good mothering ability of a sow?
- A birth weight of piglets
 - B number of litters per year
 - C number of piglets at weaning
 - D number of piglets per litter
- 9 What is agalactia in pigs?
- A a lack of iron in new born piglets
 - B failure of the sow to produce milk
 - C giving birth to stillborn piglets
 - D the process of giving birth
- 10 Why is tail docking done to piglets?
- A for cosmetic reasons
 - B to avoid injuries on sow
 - C to prevent fouling by faeces
 - D to promote growth
- 11 Which breeding system involves mating of two different breeds?
- A crossbreeding
 - B inbreeding
 - C outbreeding
 - D outcrossing
- 12 How long is the gestation period of a goat?
- A 30 days
 - B 90 days
 - C 120 days
 - D 150 days
- 13 Which practice is used to prevent foot rot in goats?
- A castration
 - B disbudding
 - C ear-notching
 - D hoof trimming

- 14 Which vegetable is a legume?
- A beetroot
 - B cabbage
 - C green beans
 - D tomato
- 15 What is fertigation?
- A applying fertiliser in a liquid form
 - B applying fertiliser in a solid form
 - C broadcasting fertiliser in the field
 - D drilling fertiliser in the planting rows
- 16 Which is the correct order of the transplanting process in vegetables?
- A picking, planting, watering, shading
 - B picking, watering, planting, shading
 - C watering, planting, picking, shading
 - D watering, picking, planting, shading
- 17 Why is thinning an important practice in vegetable production?
- A it conserves soil moisture
 - B it keeps down weeds
 - C it improves soil fertility
 - D it promotes plant growth
- 18 Which farming practice prevents the spread of pests and diseases in crops?
- A crop rotation
 - B intercropping
 - C monocropping
 - D relay cropping
- 19 Which of the following is a minor plant nutrient?
- A molybdenum
 - B nitrogen
 - C phosphorus
 - D potassium
- 20 Which pest burrows down the funnel of a maize plant?
- A CRM beetle
 - B cutworm
 - C maize weevil
 - D stalk borer

21 What is an orchard?

- A a place where cereal crops are grown
- B a place where field crops are raised
- C a place where fruit trees are grown
- D a place where vegetables are grown

22 Fig. 22.1 shows a budding method.

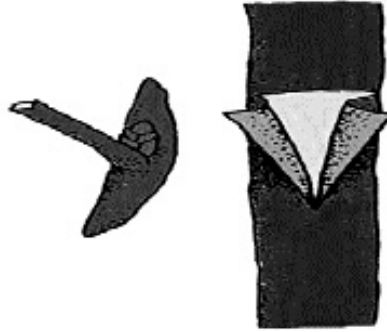


Fig. 22.1

Which budding method is shown in Fig. 22.1?

- A chip budding
- B patch budding
- C plate budding
- D T- budding

23 Which management practice makes fruit trees grow to the required shape?

- A budding
- B grafting
- C propagation
- D pruning

24 What is the role of struts in a fence?

- A they give support to the gates
- B they give support to the strainer posts
- C they hold up the wires between corners
- D they reduce sag in between standards

25 Why are metal posts treated before use?

- A to protect them against fungi
- B to protect them against insects
- C to protect them against rats
- D to protect them against rust

- 26 What is the function of an elbow in pipe fitting?
- A to change the water flow direction
 - B to combine flow from two inlets to one
 - C to completely stop the flow of water
 - D to connect pipes of different sizes
- 27 Which farm implement is used in primary tillage to bury the surface weeds?
- A disc harrow
 - B disc plough
 - C mouldboard plough
 - D planter
- 28 Which is the quickest method of establishing lawns?
- A dibbling
 - B planting
 - C seeding
 - D turfing
- 29 Which term describes the removal of thatch from lawns?
- A edging
 - B mowing
 - C scarification
 - D spiking
- 30 Which of the following ornamental plants are classified as shrubs?
- A eucalyptus
 - B jacaranda
 - C palms
 - D roses
- 31 What is asexual reproduction?
- A fusion of male and female gametes
 - B movement of pollen to the stigma
 - C pollination between related species
 - D reproducing plants using plant parts
- 32 What is the term used to describe plants that provide nectar for bees?
- A annual
 - B deciduous
 - C melliferous
 - D perennial

- 33 Which equipment is used to remove bees from honeycombs during harvesting?
- A bee brush
 - B knife
 - C smoker
 - D trap box
- 34 What is used by a queen bee to control the bees in a hive?
- A antibodies
 - B hormones
 - C pheromones
 - D spermatheca
- 35 Which body part is used by worker bees to collect nectar?
- A legs
 - B mandibles
 - C tongue
 - D wings
- 36 Which term describes the sudden departure of bees in a hive?
- A absconding
 - B migration
 - C pollination
 - D swarming
- 37 What is the nutritional value of fish for humans?
- A aids brain functioning
 - B aids digestion
 - C aids removal of toxins
 - D prevents viral infections
- 38 Why is it important to add fertiliser to a pond used for fish farming?
- A to encourage growth of small plants
 - B to neutralise the pond water
 - C to prevent the spread of diseases
 - D to provide nourishment for the fish
- 39 Which of the following is a limiting factor for fish farming in Eswatini?
- A lack of capital
 - B lack of technical skill
 - C unavailability of stock
 - D unfavourable climate

40 Which method of fish preservation does not involve a preservative?

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