

AGRICULTURE

Paper 1

516/01 October/November 2023 1 hour

Additional material: calculator

READ THESE INSTRUCTIONS FIRST

The answer sheet has 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. How long is the gestation period in rabbits?

A. 18 days **B.** 25 days **C.** 30 days **D.** 60 days

41	A	В	С	D
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For Examiner's Use			
Marks			

- 1 Which farming practice may lead to a decline in market prices?
 - A crop rotation
 - B intercropping
 - **C** mixed farming
 - **D** monocropping
- 2 Which of the following is an advantage of commercial farming?
 - A increase food production
 - **B** provides food for poor household
 - **C** reduces dependence on buying food
 - **D** surplus food is sold for cash
- 3 Which tool is used for cutting small branches and twigs?
 - A axe
 - **B** pickaxe
 - **C** pruning shear
 - D slasher
- 4 Which management practice prevents rusting in tools?
 - **A** keep tools in an orderly way
 - **B** keep tools under good condition
 - **C** paint tools during off season
 - **D** regular check for cracks and breaks
- **5** Which term describe the gradual increase in the overall temperature of the earth's atmosphere?
 - A climate change
 - **B** global warming
 - **C** greenhouse effect
 - **D** high temperature
- **6** Which environmental factor increases the rate of transpiration?
 - A high frost
 - **B** high humidity
 - **C** high rainfall
 - **D** high wind
- 7 What is the first step in land reclamation?
 - **A** burn plant residue
 - B cut down trees
 - **C** drain waterlogged soils
 - **D** remove the stump

- 8 Which of the following activities makes seedlings stronger and can withstand heat?
 - A fertilization
 - B hardening off
 - **C** shading
 - **D** transplanting shock
- 9 How often should seedlings be sprayed to protect them from diseases?
 - A daily
 - **B** hourly
 - **C** monthly
 - D weekly
- 10 Which watering practice encourages shallow root system?
 - A early watering
 - B even watering
 - **C** late watering
 - **D** light watering
- 11 Which pest control method is practiced when making snail traps?
 - A biological control
 - **B** chemical control
 - **C** cultural control
 - **D** integrated control
- 12 Which is the main product of photosynthesis?
 - A carbohydrates
 - B carbon dioxide
 - C chlorophyll
 - D water

13 Fig 13.1 shows a type of soil structure.

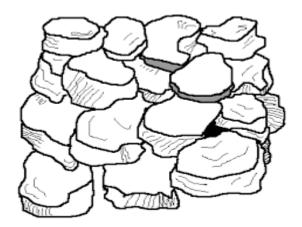


Fig 13.1

Which soil structure is indicated in Fig 13.1?

- A blocky structure
- **B** crumby structure
- **C** prismatic structure
- **D** single grain structure
- 14 Which material prevents soil capping?
 - A fertilizer
 - B lime
 - C mulch
 - D weeds
- 15 Which plant nutrient is in short supply in most Eswatini soils?
 - A calcium
 - B phosphorus
 - C sulfur
 - D zinc
- 16 Which chemical substance directly increase plant growth?
 - A fertilizer
 - B herbicide
 - C lime
 - D pesticide
- 17 Which is the first step when making a heap compost?
 - A add manure
 - B add water
 - **C** fork the soil
 - **D** place the material

- 18 Which soil condition increases the chances of erosion?
 - A coarse soil
 - B crumbled soil
 - C heavy soil
 - D sticky soil
- 19 What is the vertical distance of land with 20% slope and a horizontal distance of 200m?
 - **A** 10m
 - **B** 20m
 - **C** 40m
 - **D** 200m
- 20 Which method involves planting in drills?
 - A broadcasting
 - B furrows
 - **C** intercropping
 - D intervals
- 21 Fig. 21.1 shows a method of planting a crop.





Which of the following crops is planted using the method indicated in Fig. 21.1?

- A beans
- B maize
- **C** potato
- **D** sorghum

- 22 Why are potatoes stored in brown paper bags?
 - A to avoid tubers turning green
 - **B** to keep them moist and warm
 - **C** to prevent sprouting of tubers
 - **D** to protect them from moisture
- 23 Which crop storage method is used to dry maize cobs?
 - A grain tanks
 - B maize crib
 - c metal drums
 - D mud tanks
- 24 What is the recommended period for feeding starter mash to broilers?
 - A 21 days
 - B 28 days
 - C 35 days
 - D 56 days
- 25 Which honeybee lays eggs?
 - A drone
 - B king
 - **C** queen
 - D worker
- 26 Which term describes a family of bees in one hive?
 - **A** apiary
 - B colony
 - **C** hive
 - D swarm
- 27 Which cattle breed is characterised by a large body, a dark red coat and a broad head?
 - A Afrikander
 - B Brahman
 - **C** Jersey
 - **D** Nguni
- 28 Which breeding method results in an improvement in young livestock?
 - A cross breeding
 - **B** inbreeding
 - **C** outbreeding
 - D outcrossing

- 29 What is the function of a burdizzo?
 - A castration
 - B dehorning
 - **C** deworming
 - D disbudding

30 Which part of the digestive system of a rabbit secretes bile?

- A caecum
- B colon
- **C** liver
- D pancreas
- 31 What is the name of a young rabbit weighing between 2.0 kg and 2.3 kg?
 - A buck
 - B doe
 - **C** fryer
 - D kitten

32 When is a pregnant rabbit provided with a nest box?

- **A** a week after mating
- **B** a week after weaning
- **C** a week before kindling
- **D** a week before mating
- 33 How long is the daily heat period in goats?
 - A 10-11 hours
 - **B** 12-18 hours
 - C 21-26 hours
 - D 24-30 hours
- 34 Which type of grass is best for feeding goats?
 - A couch grass
 - B elephant grass
 - **C** thatching grass
 - **D** weeping love grass
- 35 What causes pastures in the Highveld to be sour?
 - A high rainfall
 - B low rainfall
 - **C** no rainfall
 - **D** moderate rainfall

36 Fig. 36.1 shows a fruit tree.

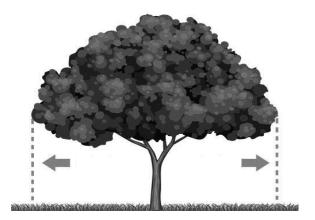


Fig. 36.1

What do the vertical lines represent?

- A base line
- **B** border line
- **C** drip line
- D straight line
- **37** How much 2:3:2 (22) + 0.5% Zn fertilizer is applied to a fruit tree every after three months?
 - **A** 100g
 - **B** 200g
 - **C** 300g
 - **D** 400g
- 38 What term describes expected costs and returns?
 - A budget
 - **B** capital
 - **C** profit
 - D record

39 Which type of influence in decision making involves price?

- A economic influence
- **B** political influence
- C social influence
- D technological influence
- 40 Which marketing operation makes a product easy to handle?
 - A advertising
 - B assembling
 - **C** packaging
 - D processing

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