EXAMINATIONS COUNCIL OF ESWATINI
Junior Certificate Examination

AGRICULTURE **516/01**

Paper 1 **October/November 2024**

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.

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	B	C	D
	○	○	●	○

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Marks	

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

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1 Which farming practice describes the growing of one crop in a field?

A commercial farming
B mixed farming
C mono-cropping
D subsistence farming

2 Which statement is an advantage of mixed farming?

A farm operations are easily managed
B farmer becomes an expert
C growing crops in succession
D there is maximum use of land

3 Which activity is controlled by the Crop Movement Act?

A importation and exportation of plants
B management of water resources
C spread of livestock diseases
D the movement of livestock

4 Which career involves the growth and production of plants for practical use?

A Agronomist
B Botanist
C Entomologist
D Forester

5 **Fig. 5.1** shows a farm implement.



Fig. 5.1

What is the name of the implement in **Fig. 5.1**?

A coulter
B harrow
C plough
D subsoiler

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6 **Fig. 6.1** shows a wheelbarrow for carrying heavy loads.

Which position enables balance of the wheelbarrow when transporting a load?

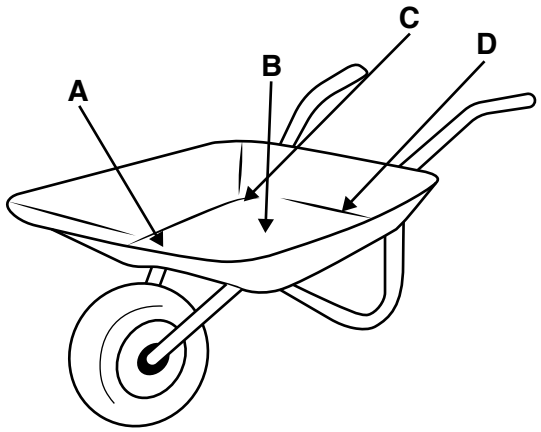


Fig. 6.1

7 Which environmental factor increases evaporation?

A bright light
B high humidity
C low temperature
D strong wind

8 Which farm activity prevents crop damage by strong winds?

A fencing the field
B mulching the soil
C planting a hedge
D shading the crops

9 Which gas contributes to the greenhouse effect?

A hydrogen
B methane
C nitrogen
D oxygen

10 Which farming activity causes air pollution?

A fertiliser overuse
B illegal dumping
C moving tractor
D oil spills

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11 Which climatic factor is a major cause for desertification?

A high frost
B high humidity
C high rainfall
D high temperature

12 What is the best reason for ploughing back maize stalk during land preparation?

A to add organic matter
B to control available weeds
C to make the land ready
D to prepare a fine tilt

13 Which nutrient is present in larger quantities in a 2:3:4 (38)+Zn fertilizer bag?

A nitrogen
B phosphorus
C potassium
D zinc

14 Which pest control method uses good crop management practice only?

A biological control
B chemical control
C cultural control
D integrated control

15 Which of the following insect is useful in crop production?

A aphid
B cutworm
C lady bird
D stalk borer

16 Which of the following equation represent respiration?

A carbohydrates + oxygen = carbon dioxide + water + energy
B carbohydrates + oxygen + energy = carbon dioxide + water
C carbon dioxide + oxygen = carbohydrates + water
D carbon dioxide + water = carbohydrates + oxygen

17 Which soil texture has a good supply of nutrients?

A clay textured soil
B loam textured soil
C sand textured soil
D silt textured soil

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18 Which farming practice improves the structure of clay soils?

A adding compost
B adding lime
C draining soil
D planting grasses

19 Which is the best vegetable to include in a crop rotation programme?

A beans
B cabbage
C lettuce
D tomatoes

20 Which practice causes soil erosion?

A aforestation
B deforestation
C mulching
D under grazing

21 **Fig. 21.1** shows a germinating maize seed.

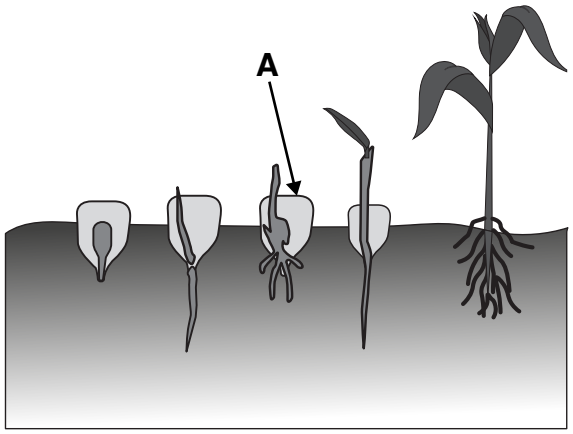


Fig. 21.1

What is the part labelled A?

A seed coat
B plumule
C radicle
D endosperm

22 What is the advantage of planting seeds in furrows?

A makes weeding easier
B plants grow evenly
C prevents plant competition
D promotes seed germination

23 Which crop is grown as cash crop?

A cotton
B groundnuts
C maize
D sorghum

24 What is the process of removing the tobacco leaves from the stalk?

A curing
B harvesting
C preservation
D stripping

25 Which pesticide is used to treat maize cobs?

A actellic 2% dust
B berelex tablet
C phostoxin tablet
D servin 87% WP

26 Which equipment is only needed for layers?

A brooder
B feeders
C perches
D waterers

27 Which characteristic is a sign of healthy chickens?

A clear bright eyes
B low production
C ruffled feathers
D watery droppings

28 Which poultry disease is characterized by blisters around the eyes?

A coccidiosis
B coryza
C fowl pox
D newcastle

29 Which equipment is used to scratch out wax caps?

A bee brush
B hive tool
C stiff wire brush
D uncapping fork

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30 Which member of a bee colony collects nectar?

A bee
B drones
C queen
D worker

31 **Fig. 31.1** shows a breed of cattle.

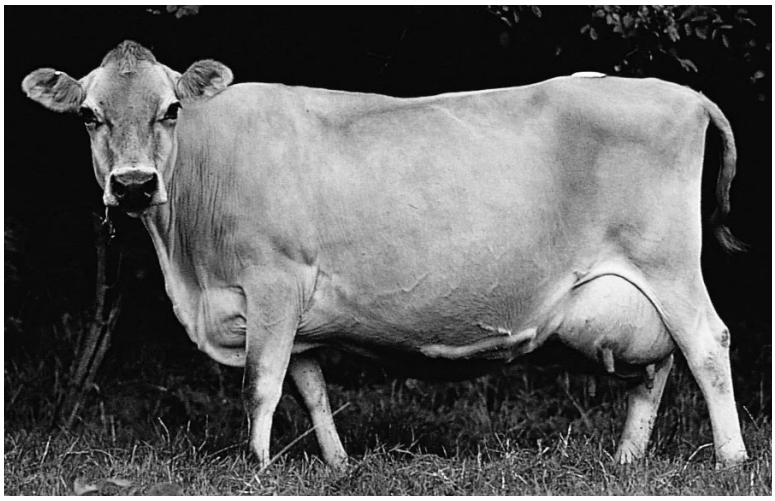


Fig. 31.1

Which cattle breed is indicated in **Fig. 31.1**?

A friesian
B brahman
C jersey
D nguni

32 What is the best age for castrating bull calves?

A 3 to 18 months
B 24 to 36 months
C 48 to 60 months
D 72 to 84 months

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33 **Fig. 33.1** shows an equipment used in rabbit production?

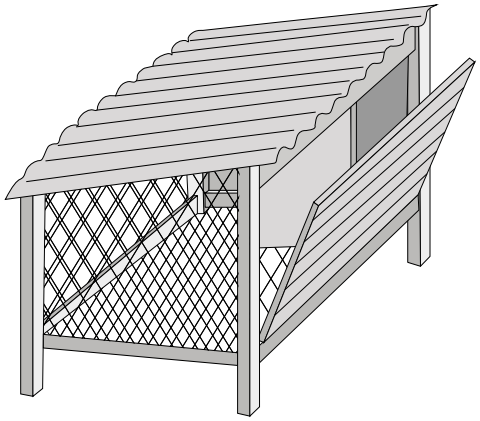


Fig. 33.1

What is the name of the equipment indicated in **Fig. 33.1**?

A cage
B house
C hutch
D nest box

34 Which rabbit breed is characterized by a large grey body with floppy ears?

A Chinchila Giant
B Flemish Giant
C New Zealand Red
D New Zealand White

35 Which goat breed has a white coat and brown head?

A Angora
B Boer
C Kalahari
D Saanen

36 What is the function of the reticulum in the digestive system of a ruminant?

A absorption of water
B breaks down cellulose
C breaks down food particles
D trapping foreign materials

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37 **Fig. 37.1** shows an invasive plant species.



Fig. 37.1

What is the name of the weed indicated in **Fig, 37.1**?

A bug weed
B lantana camara
C mauritius thorn
D triffid weed

38 Which feed has high water content?

A concentrates
B foggage
C hay
D silage

39 Which farming practice can ensure that fruits are available throughout the year?

A harvesting at intervals
B stopping the ripening
C storing the fruits
D spraying the fruits

40 Which element makes consumers aware about the goods?

A place
B price
C product
D promotion

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