



KITH AND KIN INTERNATIONAL COLLEGE

444 Kith Olusanya Street, Owode, Ibeju-Lekki, Lagos State.
FIRST TERM EXAMINATION 2025/2026 ACADEMIC SESSION

NAME					
SUBJECT	AGRICULTURAL SCIENCE	CLASS	SS 3	DURATION	2 HOURS
SECTION A: MULTIPLE CHOICE – ANSWER ALL QUESTIONS FROM THIS SECTION					

OBJECTIVES

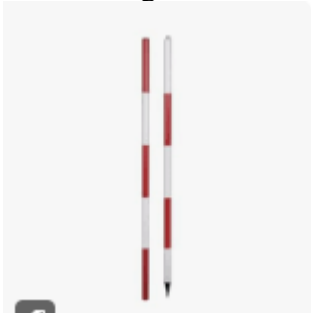
INSTRUCTION: ANSWER ALL QUESTION



1.

- The above image means
 - drawing of a farm stead.
 - proper use of farm land
 - measurement of land.
 - overview of farm land

- The image below are used for



- angular distance
- marking out stations
- bearing.
- high porosity and low capillarity

- The law that states the characteristics of an organism are controlled by genes of which only one pair is passed to the offspring is known as Mendel's
 - 1st law
 - 2nd law
 - 3rd law
 - 4th law

- The development of animals by transferring inherited qualities from parent to offspring is
 - artificial insemination
 - selection
 - inbreeding
 - breeding

- Types of breeds of animals are these except
 - local.
 - alsatian.
 - imported.
 - hybrid.

- An advantage of sprinkler irrigation is that
 - it assists farmers to raise a greater variety of crops.
 - it is easy to instal
 - large areas of land can be irrigated.
 - it can be afforded by peasant farmers.

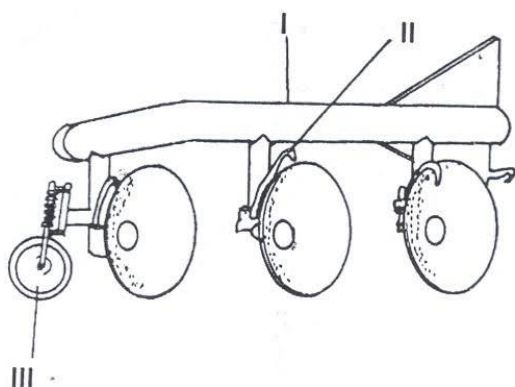
- The most convenient method of fertilizer application used when crops have been planted in rows is
 - foliar application.
 - broadcasting.
 - drilling.
 - ring placement.

- Streak disease of maize is caused by
 - virus.
 - nematode
 - fungus.
 - bacterium

- The function of the mouldboard in a mouldboard plough is to
 - cut a horizontal line in the soil.
 - give support to the share.
 - invert the furrow slice.
 - keep the equipment steady during operation.

10. Which of the following activities are cultural practices? I. Harrowing II. Filling-in III. Mulching
- I and II only
 - I and III only
 - II and III only
 - I, II and III

11. Which of the following land tenure systems allows for individual ownership?
- Land pledge system
 - Freehold system
 - Leasehold system
 - Tenancy at the will of government



12. The above diagram is a farm implement used for
- harvesting
 - tillage
 - watering of plants
 - cutting of trees

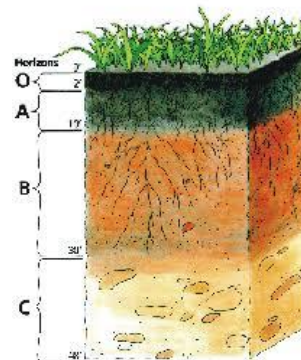
13. The part labelled I is called _____
- plough
 - blade
 - handle
 - beam

14. Bone meal is derived from the following animals except
- fish
 - Cow
 - Sheep
 - Goat

15. Organisms that live on another organism causing harm is
- liver fluke.
 - earthworm.
 - sheep.

D. fish

16. Channels through which farm produce pass through to get to the final consumer is called
- local market
 - cooperative society
 - marketing channel



D. middle men

17. The soil horizon that is not supportive of the growth of tree crops is
- horizon O
 - horizon A
 - horizon B
 - horizon C

18. The horizon labeled A is the
- parent materials
 - top soil
 - bedrock
 - sub soil

19. Retailers give credit to consumers?
- True
 - False
 - I don't know.
 - Nil

20. --- helps to stimulate investment and stabilize farmers income
- Agric risk.
 - Agric production.
 - Agric insurance
 - Agric assurance

21. Which of the following effects is not due to water-logging?
- Inhibition of crop development
 - Enhancement of leaching
 - Inhibition of the activities of soil micro-organisms
 - Wilting of crop roots

22. High temperature and pressure convert sandstone to

- A. basalt.
- B. quartzite.
- C. coal.
- D. limestone.

23. In the carbon cycle, atmospheric carbon dioxide is replenished by

- A. respiration.
- B. transpiration.
- C. lightning.
- D. denitrification

24. Which of the following groups of crops grows best in the savanna zones of West Africa?

- A. Cotton, millet and groundnut
- B. Cocoa, kola and oil palm
- C. Cotton, cocoa and guinea corn
- D. Banana, rubber and millet

25. Which of the following factors is both a physical and a chemical agent of rock weathering?

- A. Temperature
- B. Animal
- C. Water
- D. Oxygen

26. Coffee spp. grows best

- A. on lowlands.
- B. on highlands.
- C. in mangroves.
- D. in rain forests.

27. The survey Instrument used for measuring horizontal and vertical angles on the field is the

- A. theodolite.
- B. prismatic compass.
- C. offset staff
- D. arrow.

28. Grafting involves the

- A. fusion of the gametes of two plants.
- B. inducement of rooting from two stems.
- C. transfer of a bud from one plant to another.
- D. joining of two parts from related plants.

29. Which of the following practices promotes agricultural development?

- A. Growing disease-resistant crops
- B. Planting late-maturing crop varieties

C. Banning importation of pesticides

D. Encouraging communal land tenure system

30. Which of the following products is not from coconut?

- A. Candy
- B. Copra
- C. Oil
- D. Jam

Study the demand schedule for an agricultural commodity below and use it to answer Question 31-33.

Price (N)	Quality Demanded (kg)
30	200
20	240

31. Calculate the percentage change in quantity of commodity demanded.

- A. 10%
- B. 20%
- C. 30%
- D. 40%

32. Calculate the percentage change in price for the commodity.

- A. 50.0%
- B. 40.0%
- C. 33.3%
- D. 23.3%

33. Find the elasticity of demand for the commodity.

- A. 0.9
- B. 0.8
- C. 0.6
- D. 0.3

34. Tsetse flies are of economic importance in livestock production because they transmit

- A. coccidia.
- B. trypanosome
- C. brucella
- D. mycobacterium

35. What fishing gear is illustrated below?



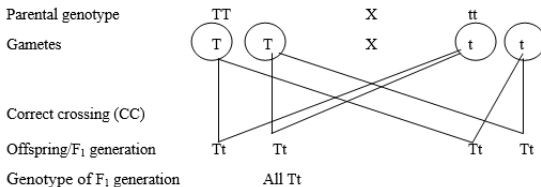
- A. Cast net
- B. Lift net
- C. Scoop net
- D. Trawl net

36. A young female cattle which has never calved is known as
- A. bullock.
 - B. steer.
 - C. yearling.
 - D. heifer.

If T represents the gene for tallness while t represents dwarfness, use the information to answer questions 37 and 38.

The expected answers are:

(a) Genetic Cross



Note: Punnett square should be accepted;
Gametes must be circled or spread apart to score;
If the crossing is wrong the F₁ generation does not score;
If cross sign (X) is absent no score.

37. When a tall (TT) crop is crossed with a dwarf (tt) crop, the resultant crops will be
- A. 100% dwarf.
 - B. 100% tall.
 - C. 50% tall and 50% dwarf.
 - D. 75% tall and 25% dwarf.

38. The genotypic ratio of the second filial generation will be
- A. 3:1
 - B. 1:2:1
 - C. 2:2
 - D. 4:0

39. The correct sequence of feed utilization in farm animals is
- A. digestion-ingestion-absorption-assimilation.

- B. ingestion-digestion- assimilation - absorption,
- C. ingestion-digestion- absorption-assimilation.
- D. digestion-assimilation- Ingestion- absorption.

40. Sexual maturity in farm animals is not influenced by their
- A. breed.
 - B. sex.
 - C. nutrition.
 - D. weaning age.

41. A sow that is not producing milk after farrowing should be given
- A. oxytocin.
 - B. antibiotic.
 - C. anthelmintic drug.
 - D. sulphaquinoxaline.

42. In preparing for parturition of a sow, warmth should be provided to
- A. promote growth of hair of the young.
 - B. make the young suckle colostrum.
 - C. prevent anaemia in the young.
 - D. prevent chilling of the young.

43. Close to the time of harvesting of cotton, sunshine is needed to ensure the production of bolls that are
- A. big.
 - B. light.
 - C. not mouldy.
 - D. not open.

44. Which type of loan should a farmer obtain to start an oil palm plantation?
- A. Short-term loan
 - B. Long-term loan
 - C. Non-institutional loan
 - D. Operational loan

45. Calculate the annual depreciation of a farm house using the following data:
- (i) The initial cost of farm house = #100,000.00
 - (ii) Expected life span of farm house = 100 years
 - (iii) Estimated salvage value of farm house = #25,000.00
- A. #750.00
 - B. #725.00
 - C. #720.00
 - D. #700.00

46. The most important factor which determines the demand for cowpea by consumers is the

- income of consumers.
- price of cowpea.
- supply of cowpea.
- taste of consumers.

47. Land in agricultural business is a durable asset because

- its value is realized over several years.
- it is more valuable than labour.
- it can be expanded by reclamation.
- it is a free gift of nature.

48. A cowpea farmer obtained a loan of #50,000.00 from his co-operative society at an interest rate of 5%. Calculate the interest to be paid on the borrowed capital after one year.

- #2,500.00
- #5,000.00
- #7,500.00
- #10,000.00

49. The main function of an agricultural extension agent is to

- assist farmers to export their produce.
- provide managerial services to farmers.
- educate farmers on innovations in agriculture.
- act as a link between farmers and middlemen.

50. Pineapple is widely propagated using

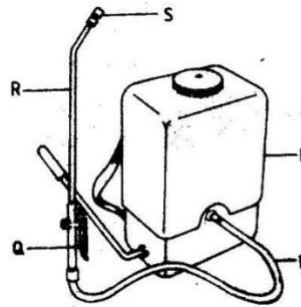
- seeds.
- suckers.
- slips.
- cutting

51. The device which helps to stabilize heat in an incubator is the

- thermometer.
- hygrometer.
- barometer.
- thermostat.

52. Marketing agents include the following except

- producer
- cooperative society.
- wholesaler.
- market women.



53. Which of the labeled parts is referred to as the handle?

- S
- N
- P
- Q

54. The general method of maintaining the above image include the following except

- wash and dry after use.
- keep in a cool, dry place
- grease the part labeled N very well before and after use.
- always check the nozzle before and after use .

55. Crop rotation decreases the incidence of pests by

- breaking life cycles of pests.
- attracting pest predators.
- sterilizing the soil.
- maintaining soil fertility.

56. If the recommended spacing for a tree crop is 2.5m by 4.0m, determine the number of seedlings required to plant a 2-hectare farmland.

- 1,000
- 2,000
- 10,000
- 20,000

57. In animal production, newly-born rabbits are called

- bunnies.
- kids.
- poults.
- lambs.

58. The weight of a sheep increased from 25kg to 45kg in two months. If the total consumption during the period was 60kg, determine the feed conversion ratio.

- 1:1

- B. 1:2
- C. 3:1
- D. 4:1

The data for feed consumption and weight gain of four farm animals labelled P, Q, R and S are shown below:

P - 50 kg feed consumed and 20 kg weight gained
 Q - 90 kg feed consumed and 30 kg weight gained
 R - 100 kg feed consumed and 25 kg weight gained
 S - 150 kg feed consumed and 30 kg weight gained

Use the data to answer questions 59 and 60.

59. Which animal is the most efficient feed converter?

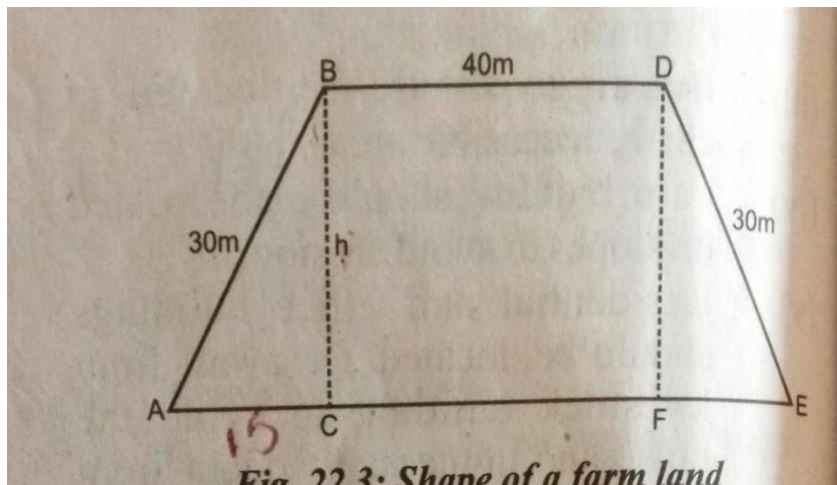
- A. P
- B. Q
- C. R
- D. S

60. The feed conversion efficiency of the poorest weight gainer is

- A. 0.40
- B. 0.33
- C. 0.25
- D. 0.20

INSTRUCTIONS: Answer any Four questions.(40marks)

- 1a. A school farm banana farm was surveyed and presented in a map as shown in the figure below. Use it to answer the following questions.
 - a. Find the area of the farmland
 - b. The plant population (banana) if the spacing is 2.5m x 2m
 - c . If 8% of the banana plants were damaged by pests, what will be the final banana plants in the farm?



- 2a. Explain each of the following terms used in agricultural ecology 3 marks

i. Soil texture

ii. Soil structure

iii. Soil profile

b[i] Name three common diseases of crops. 3 marks

i. _____

ii. _____,

iii. _____

C State common symptoms of diseases in crop mentioned above. 2 marks

i. _____

ii. _____,

c. Mention two ways of controlling crop diseases. 2 marks

i _____

ii _____

3a. State three aims of animal improvement. 3 marks

i. _____,

ii. _____

iii. _____

b. Briefly explain four processes of animal improvement. WAEC 2017 4 marks

i. _____,

ii. _____

iii. _____,

iv. _____,

c. Apart from mating, state two other ways of collecting semen for artificial insemination.

1 mark

i. _____, ii. _____

d. state one advantages and two disadvantages of artificial insemination.

2 marks

Advantages

i. _____,

Disadvantages i.

_____,

4a. Define the term “Animal by-product”.

b. State any ten animal by-product .i _____ ii. _____,

iii _____ iv.

v.

vi

vii _____ viii _____,

ix _____ x _____.

c. State two uses of any four examples of animal by-product listed in **4b** above.

i.

_____,

ii.

_____,

iii.

_____,

iv.

_____,

5a. State four principles of agricultural extension programme. 4 marks

i.

_____,

ii.

iii.

_____,

iv.

—

b. Olajide farms carried out the following transactions during the accounting year 1st January, 2023 to 31st December, 2023

Broiler for domestic use	N2610.00
Wages for workers	N2800.00
Sales of manure	N2488.00
General expenses	N856.00
Sales of pullet	N3812.00
Packaging cost	N1857.00
Transportation	N1324.00
Depreciation	N500.00
Maintenance cost	N480.00
Electricity bills	N800.00
Net profit	N6000.00
Sales of eggs	N8200.00
Cost of incubator	N2500.00
Cost of feed	N5000.00
Cost of drug	N2321.00
Eggs for domestic use	N1470.00
Loss due to mortality	N200.00
Value of stock left	N300.00
Sales of broilers	N9872.00
Farm wages	N3102.00

[i] Draw up a simple farm account with the above financial transactions for Olajide Farms.

3 marks

[ii] What is the profit or loss for the year of the value of produce used at home by Olajide Farms?

3 marks

6a What is forest regulations. 1 marks

i. _____

b. Highlight two economic importance of liverfluke 1 marks

c. State two bee keeping equipment and function. 1 marks

i. _____

 ii. _____

d. Mention three products of Bee 3 marks

i. _____
 ii. _____
 iii. _____

b. State two precautionary measures that should be taken in Bee Keeping .

WASSCE 2016

2 marks

i. _____

ii

—

e. State three stages of agricultural marketing

i. _____ ii. _____, iii

7a. Explain the term agricultural marketing. WASSCE 2019

2 marks

b. Enumerate four marketing agents.

2 marks

i. _____ ii. _____,

iii _____ iv. _____

c. State four factors that influence the demand for agricultural produce.

2 marks

i _____, ii _____,

iii _____, iv _____,

d. Explain four reasons why it is necessary to keep farm diaries. .

2 marks

i. _____

— ii _____

— iii _____

— iv _____

e. State four various types of agricultural risks.

2 marks

i _____ ii. _____

iii _____ iv _____

8. Suggest two possible solutions to each problems of agricultural development in West Africa .
WASSCE 2020.

4 marks

b. Discuss two desirable qualities of farm manager.

2 marks

i. _____,

ii. _____

_____,

c. State two problems that can be encountered by a farm manager. WAEC 2018.

2 marks

i. _____,

ii. _____

d. Write short notes on the following:

i. Mendelian's 1st Law of Segregation of Genes

WAEC 1990

2 marks

ii. Mendelian's 2nd Law of Independent Assortment of Genes
