Carrier and

ESSAY

There are six questions in this paper. Answer five questions only Loo marks]

	There are six questions in this paper. Answer Rec. Write your answers in tale, in this brooklet. All questions carry equal marks.	
L (a) Dis	scuss the International Institute of Tropical Agriculture	
(i)	location of its hendquarters;	
(ii)	three target crops:	
	to and development.	
(iii)	five roles in agricultural development.	
	[9 marks]	
or) Canto	three disadvantages each of using the following sources of party	
(b) State		V
	e three disadvantages each of using the following sources of power of farm:	
the fi	Farm: sunlight;	
	Farm: sunlight; electricity;	
(i) N	sunlight; 2Ste	
(i) (ii)	electricity;	
(i) (ii)	electricity;	

		are supply
	1	are supply curve for rice.
	1	
	1	
	(h	Dos.
	(0)	Determine the price elasticity of supply when the price increases from \$\\$100 to \$\\$250.
		After the statisticity of supply when the price increases to
		14100 to #250.
	0	
	C	
		term
		22.74 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	(c)	Mention four characteristics of a good dairy cow.
21		
	(a)	List three methods of determining soil texture.
A .	(d)	
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	- 3	

The control	Candidace	14
Divinor write in this margin.	Candidate's Namez 2. (a) Draw a well-labor.	
	Draw a well-labelled diagram of the water cycle.	
	(b) (i) Explain the term deformation	[6 marks]
	A STATE OF PARTICULAR STATES OF THE STATES O	- In manage
	INI DEC.	
	(ii) Give fine reasons any forest trees are important to the	[2 marks]
	C TO The state of the convenient of the environment.	
N	(ii) Give five reasons very forest trees are important in the environment.	
	(c) Mention five roles of living organisms in the soil.	[5 marks
	(c) Mental are into a aying against a are are	
		[5 marks
warmen.	3	

			A R I WAS A STREET
	sta). Costs	plete the	suble below.
200	sur. Com		

Farm	Young one	Act of partirition	Number of tests in udder	Oestrus cycle (days)	General
Gont					1900
Cattle					

(b) Mention four factors that determine the degree of an animal's resistance to a disease.

(c) Give four reasons why bush burning should be discouraged in West Africa.

The table below illustrates the supply schedule for rice. Use it to answer questions 6(a) and 6(b).

Quantity supplied (tonnes)
20
40
50
60
100

- 50V	100	Candi	date's	Name:	
Do not write in				***************************************	
	4.	(a)	Disc	uss the cultivation of rubber under the following headings:	
			(i)	botanical name;	
			(ii)	two methods of propagation;	
			(iii)	soil requirement;	
			(iv)	fertilizer application;	
			(v)	harvesting.	-
					[6
		(b)	(i)	e two insect pests of each of the following crops: sorghum;	
			(ii)	cassava;	
	1	8	S (iii)	tomato.	
		(c)	State	six effects of high temperature in a brooder house.	
		(4			
		- 3			
		79			
		G			-

Answer all the questions

Each question is followed by four options lettered A to O. Find the correct option for and shade in pencil on your answer sheet, the answer space which bears the same lett you have chosen. Give only one answer to each question. An example is given held

To which of the following crops does the term ginning apply?

- A. Kennf
- B. Cocon
- C. Groundnut
- D. Cotton

The correct answer is cotton which is lettered D and therefore unswer space 15 w

LAI

[B]

[C]



Think carefully before you shade the answer spaces; erase completely any ans change.

Do all rough work on this question paper.

- A source of fuel commonly available in rural areas of West Africa is
 - A. biogas.
 - B, kerosene.
 - C. firewood.
 - D. petrol.
- 2. The more important factor that determines the late or again ultural development in a country is the
 - A. abundance of farm machinery available.
 - B. number of people involved in agriculture.
 - C. adoption of viable research findings.
 - D. quantity of agrochemicals used.
 - Non-governmental organizations contribute to agricultural development in West Africa through the
 - A. provision of subsidized milk for farmers.

 B. establishment of universities of agriculture.
 - provision of organic manure for farmers.

 development of improved seeds and

 cultivary.

- A major limitation to agricu mechanization in West Afric
 - A. small farm holdings.
 - poor storage facilities
 - C. poor marketing system
 - D. inadequate rainfall.
 - The farm power that could livestock waste is
 - A. hydro.
 - B. solar.
 - C. mechanical.
 - D. biogas.

- 32. The illustrated pest is a major pest of
 - A. cassava
 - B. pepper.
 - C. millet.
 - D. groundnut.
- A cultural method of controlling the illustrated pest is by
 - A. late harvesting.
 - B. spraying with insecticides.
 - C. introduction of wasps.
 - D. timely planting.
- 34. Which of the following ornamental plants is commonly cultivated as a pot plant?
 - A. Hibiscus
 - B. Croton
 - C. Ice plant
 - D. Aloe vera

The diagram below illustrates the digestive system of cattle. Use it to answer questions 35



- 35. The part that receives feed after swallowing is labelled
 - A. L.
 - В. П.
 - C. III.
 - D. IV.

- Digestive juices are secreted in the part labelled
 - A. L.
 - В. П.
 - C. III.
 - D. IV.
- 37. The part referred to as honeycomb is labelled
 - A. IV.
 - B. III.
 - C. II.
 - D. I.
- 38. The true stomach in poultry is
 - A. crop.
 - B. proventriculus.
 - C. gizzard.
 - D. small intestine.
- Muniple births are common in the following animals except
 - A. pigs.
 - B. goats.
 - C. rabbits.
 - D. cattle.
- 40. Which of the following practices will not aid milk let-down in a lactating cow?
 - A. Injection of progesterone
 - B. Provision of adequate feed
 - C. Injection of oxytocin
 - D. Presence of a calf
- Fusion of male and female gametes takes place in the
 - A. vulva.
 - B. ovary.
 - C. oviduct.
 - D. cervix.

- 23. Which of the following crops would require the illustrated farm operation?
 - A. Okra
 - B. Tomato
 - C. Yam
 - D. Maize
- 24. The most important farm tool that could be used to carry out the illustrated farm operation is
 - A. rake.
 - B. hoe.
 - C. shovel.
 - D. trowel.
- 25. An advantage of planting crops using the illustrated farm operation is that it
 - A. encourages leaching.
 - B. conserves space.
 - C. reduces soil erosion.
 - D. reduces soil temperature.
- 26. Which of the following factors is not an objective of plant breading?
 - A. Tolerance to harsh climatic conditions
 - B. Resistance to pests
 - C. High pollination rate
 - D. Uniform maturity of plants
- 27. Which of the following factors could be responsible for poor yield of yam that is planted on a fertile soil in a high rainfall area?
 - A. Leaching of soil nutrients
 - B. Inadequate soil microorganisms
 - C. High alkalinity of soil
 - D. Poor soil structure

- 28. A farmer projects the cultivation of 120,000 stands of maize at a spacing of 30 cm by 60 cm. Determine the total area of farmland required in hectares.
 - A. 2.16 ha
 - B. 10.80 ha
 - C. 13.33 ha
 - D. 66,67 ha
- 29. Which of the following crops correctly matches its material for propagation?
 - A. Banana → slip
 - B. Cocoyam → corm
 - C. Sugarcane → rhizome
 - D. Spinach → bulb
- 30. If 450 out of 600 cowpea seeds planted germinate, the percentage germination is
 - A. 25.0%
 - B. 33.3%
 - C. 66.7%
 - D. 75.0%

The diagram below illustrates an insect pest of crops. Use it to answer questions 31 to 33.



- 31. The mouthpart possessed by the illustrated pes
 - A. boring.

is

- B. biting and chewing.
- C. pier0.6y/ah2/02024 11:20
- D. chewing.

- An advantage of using sawdust as litter in the deep litter system is that it
 - does not last long.
 - B. cakes up easily.
 - C. absorbs water easily.
 - D. harbours pathogens.
- 43. If a floor space of three adult chickens per square metre is recommended in a deep litter house, calculate the number of adult chickens that could be stocked on a floor space of 300 m².
 - A. 50 chickens
 - B. 100 chickens
 - C. 450 chickens
 - D. 900 chickens
- 44. Examples of zoonotic diseases are
 - aspergillosis, rinderpest and tuberculosis.
 - rinderpest, aspergillosis and coccidiosis.
 - C. anthrax, brucellosis and tuber ulcs.
 - D. coccidiosis, anthrax and rivderper
- 45. Which of the following equipment protects the bee keeper's need and face from bee stings?
 - A. Smoker
 - B. Brush
 - C. Veil
 - D. Boots
- 46. The supply curve slopes
 - A. vertically to the right.
 - B. downward to the left.
 - C. upward to the left.
 - D. downward to the right.

- 47. Salvage value refers to the
 - A. interest on borrowed money.
 - value of agricultural input owned by a farmer.
 - C. initial cost of farm machinery.
 - D. value of an asset after its economic lifespan.
- The marketing agent that would be of utmost benefit to the farmer is
 - A. wholesaler.
 - B. commodity board.
 - C. retailer.
 - D. cooperative society.
- The activities of middlemen may cause the following marketing problems except
 - A. reduced profit for farmers.
 - B. artificial scarcity of produce.
 - inadequate storage facilities.
 - inflation of prices of produce.
- 50. Farmers could minimize risks associated with farming business mainly by
 - A. practising monocropping.
 - B. early planting.
 - C. diversification of farm enterprise.
 - selling farm produce immediately after harvesting.

- 14. The soil sample in diagram III is
 - sand
 - silt.
 - C clay,
 - D. loam
- 15. If 40 ml of water was added to the soil sample in diagram I and 24 ml of water was collected at the end of the experiment, calculate the percentage of water retained in the soil sample.
 - 33.3%
 - B. 40.0%
 - C. 60.0%
 - D. 66,7%
- 16. Which of the following statements is not correct about micronutrients? They
 - act as catalysts and co-enzymes in growing plants, B.
 - are required in small quantities. C.
 - are toxic when present in large quantities
 - are the most abundant element leaves.
- 17. Which of the following rties of soil are easily noticed in profile?

 - Colour
 - Ш Structure
 - A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III
- 18. A major disadvantage of continuous cropping is that it
 - requires huge capital investment.
 - B. requires large hectares of farmland.
 - C. encourages displacement of farm workers.
 - encourages build-up of pests. D.

- 19. If area fertilizer contains 46% nitrogen, calculated in 200 to the the quantity of nitrogen in 200 kg of urea.
 - A 23 kg
 - 46 kg
 - 77 kg
 - D. 92 kg
- Which of the following parts of yarn is attacked
 - Leaves
 - Roots
 - C. Tubers
 - D Vines
- 21. Oil palm fruits are separated from the bunch mechanically by the use of
 - centrifugal machine.
 - B. screw press.
 - macera or
 - tating threshing drum.
- Carrot is propagated by
 - sucker.
 - corm.
 - C. seed
 - D. bulb.

The diagram below illustrates a farm operation. Use it to answer questions 23 to 25.



The diagram before illustrates a farm much Use if to ensure questions & to \$



- The illustrated farm machinery is used for
 - 1 ploughing.
 - B. ridging:
 - 6 stumping.
 - D. planting.
- A farm tool that could perform a similar function as the illustrated machinery is erNAE
 - dibber. A
 - B mattock
 - C. hoe.
 - D. rake.
- ince practice carried out on the ated farm machinery is
 - replacing worn out tyres.
 - changing the engine oil. B.
 - smearing movable parts with grease. C.
 - checking oil and water levels. D.
- The oldest method of irrigation in West Africa is 9.
 - drip. A.
 - sprinkler. B.
 - C. shaduf.
 - D. basin.

- Stray Region; or West Advant in
 - h
 - 36. Winds
 - 6 Buylanger
 - 56 Water Company
- 11. Human in produced
 - from the weathering of parent of h
 - during the process of sitrificate 50.
 - from dead plant and animal ma-
 - 13. when organic matter is said in pressure.
- Wind could be beneficial to crop became in
 - aids dispersal of wood seeds. A.
 - aids pollination of crops. 13
 - causes lodging of crops.
 - D. cause operarying of wet so

agrams below illustrate an e scrup on three different soil samp to answer questions 13 to 15.



- The aim of the illustrated expen to determine the
 - percentage of water in the A.
 - water holding capacity of В.
 - capillarity of soil. C
 - sedimentation of soil. Di.

- A. sand.
- B. silt.
- C. clay.
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 - C. are toxic when present in large quantities.
 - D. are the most abundant elements in plant leaves.
- 17. Which of the following properties of soil are easily noticed in a soil profile?
 - I. Texture
 - II. Colour
 - III. A true are

III only

- II and III only
- D. J, II and III
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