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443/1 - **AGRICULTURE** - Paper 1

SEPT. 2018 2HRS

Name Index Number

Candidate's Signature Date

Instructions to candidates

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of **three** sections; **A, B** and **C**.
- (d) Answer **all** the questions in section **A** and **B**.
- (e) Answer any **two** questions in section **C**.
- (f) All answers should be written in the spaces provided.
- (g) **This paper consists of 16 printed pages.**
- (h) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- (i) **Candidates should answer all the questions in English.**

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1-15	30	
B	16-19	20	
C		20	
		20	
Total Score		90	

**AGRICULTURE PAPER 1
PREDICTION & REVISION KIT
2018**

SECTION A: 30 MARKS

Answer all questions in this section in the spaces provided.

1. State **Four** properties of soil that are influenced by its texture. (2mks)
2. State **Two** factors that would influence the time of planting beans. (1mk)
3. Name **Two** means of applying water to crops by overhead irrigation. (1mk)
4. Give **Five** farming practices that could be used to improve soil structure. (2 ½ mks)
5. State **Two** ways in which pruning helps to control diseases in tomatoes. (1mk)
6. State **Two** ways in which inorganic mulch helps to conserve water in the soil. (1mk)

7. State **Four** benefits of minimum tillage in crop production. (2mks)
8. State **Four** ways of improving labour productivity in a farm. (2mks)
9. State **Two** factors that influence wind erosion. (1mk)
10. State **Three** practices that could be carried out to maximize the use of nitrogen fertilizer in a maize crop. (1 ½ mks)
11. Name **Two** chemical processes of weathering. (1mk)
12. Give **Two** chemical properties used to classify soil. (1mk)
13. Outline **Four** advantages of individual owner operator tenure system. (2mks)
14. List **Four** factors that should be considered when grading a crop produce. (2mks)
15. State **Four** importance of raising cabbage seedlings in a nursery bed. (2mks)
16. Give **Four** desirable characteristics of certified seeds. (2mks)
17. Outline **Two** characteristics of phosphatic fertilizers (1mk)
18. Give **Four** factors that influence the choice of tools and equipment used in primary cultivation. (2mks)
19. List **Four** general symptoms of viral diseases in crops. (2mks)

SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided.

20. The inventory for millennium farm as of 1st June 2010 was as follows;

Cash at hand	Kshs.5,000
Layers	Kshs.30,000
Dairy cattle	Kshs.120,000
Beans in store	Kshs.7,000
Calves	Kshs.15,000
Building	Kshs.75,000
Machinery	Kshs.95,000
Land	Kshs.200,000

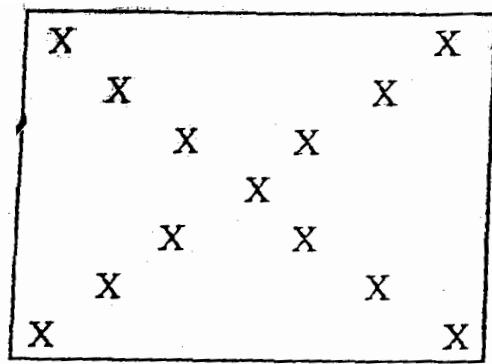
On the same day the following information was obtained from the farmers records.

Bank Loan	Kshs.213,000
Egg sales on credit	Kshs.10,000
Milk sales on credit	Kshs.13,000
Vegetable sales on credit	Kshs.5,000
Farm inputs purchase on credit	Kshs.19,800
Wages payable	Kshs.5,600
Taxes payable	Kshs.750
Cash in Bank	Kshs.20,000
Interest payable	Kshs.2,000

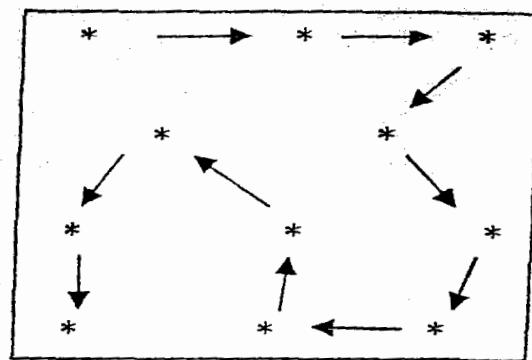
Prepare a balance sheet for the farm

(5mks)

21. Study the following diagrams of soil sampling and answer the following question.



A



B

a)

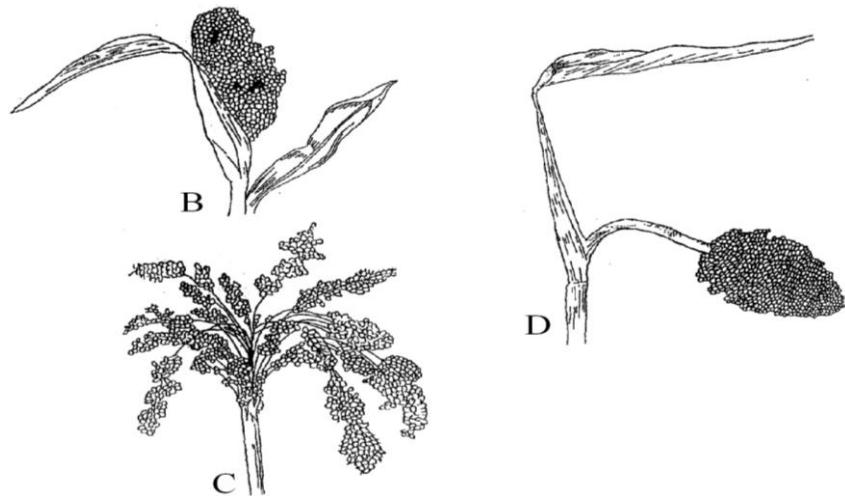
Identify the sampling methods labeled

A.....

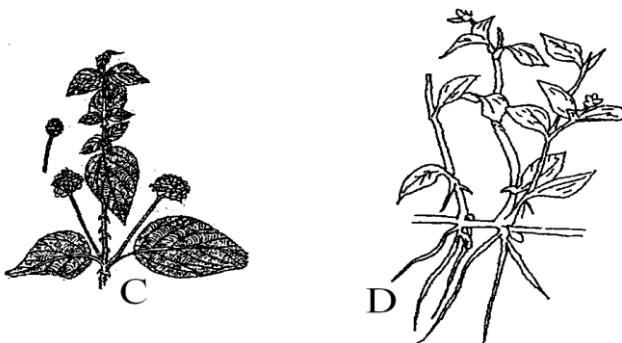
B.....

- b) Describe the procedure followed during soil sampling. (3mks)

22. Diagrams B, C and D below shows the panicles of three sorghum varieties growing side By side.

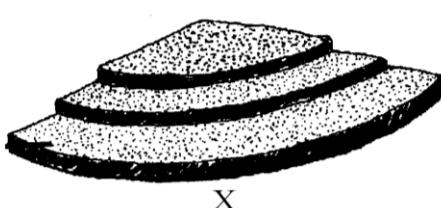


- i) Which of the **three** varieties of sorghum is least likely to be damaged by the birds? (½ mk)
 ii) Give a reason for your answer in (i) above. (½ mk)
 iii) State **two** methods that are used in controlling birds in a field of sorghum. (2mks)
23. Study the weeds illustrated below and answer the questions that follow.

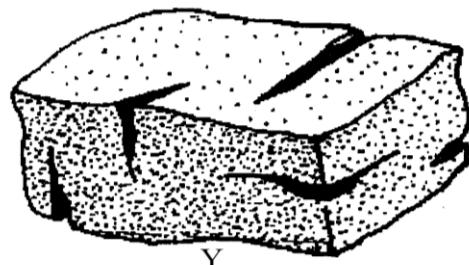


- a) Identify the weeds shown.
 A..... (2mks)
 B.....
 C.....
 D.....
- b) Give one economic importance of each of the weeds A and B. (2mks)
 A.....

- B.....
- c) State the advantage of weed C on the farm. (1mk)
- d) Why is weed D difficult to control. (1mk)
24. The illustrations below represents types of soil structures. Study them carefully and answer the questions that follow.



X



Y

- a) i) Identify the soil structures X and Y shown above. (1mk)
- ii) Which of the soil structure you have named above is not suitable for growing maize. (½ mk)
- iii) Give **one** method of improving the soil structure you have mentioned in (ii) above. (½ mk)

SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided after each question.

25. a) Describe the establishment of grass pasture from the time the land is ploughed Using a moulboard or Disc plough to the time the pasture is ready for grazing. (11mks)
- b) What are the advantages of mixed grass legume pasture over a pure grass pasture? (9mks)
26. a) Describe ways in which cultural measures control crop diseases. (8mks)
- b) Explain the problems of marketing Agricultural produce. (8mks)
- c) State how grass cover conserves soil (4mks)
27. a) Explain ways in which the farmer can deal with risks and uncertainties. (8mks)
- b) Explain **Six** factors considered when spacing crops. (12mks)