

NAME ..... INDEX NUMBER .....

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443/1

**AGRICULTURE**

PAPER 1

**TIME: 2 HRS**

JULY/AUGUST 2016

**WESTLANDS SUB-COUNTY JOINT EXAMINATION**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

**AGRICULTURE**

Paper 1 (Theory)

July/August 2016

**Time: 2 hours**

**INSTRUCTIONS TO CANDIDATES**

- This paper consists of three sections: A, B and C.
- Answer all the questions in Section A and B
- Answer any two questions from Section C.
- All answers must be written in the spaces provided.

**FOR EXAMINER'S USE ONLY**

Section	Question	Maximum Score	Candidate's Score
A	1 - 18	30	
B	19 - 22	20	
C	23 - 25	20	
		20	
<b>TOTAL SCORE</b>		<b>90</b>	

**SECTION A 30 MARKS (ANSWER ALL QUESTIONS)**

1. State three characteristics of shifting cultivation (1 ½ mks)
- .....
- .....
- .....
- .....
2. What do you understand by the term plantation farming (1 mk)
- .....
- .....
3. Give four benefits of good soil structure in crop production (2 mks)
- .....
- .....
- .....
- .....
4. State four reasons for sub-soiling in a maize field (2 mks)
- .....
- .....
- .....
- .....
5. What factors would a farmer consider when deciding on the type of irrigation to use in rice production (2 mks)
- .....
- .....
- .....
- .....
6. List any four ways in which soil is deprived of its fertility (2 mks)
- .....
- .....
- .....
- .....
7. A form four student noticed that her crops of maize had interveinal chlorosis. What was the possible cause of the condition (½ mk)
- .....

- .....
8. Name three plant parts used for propagation of pineapples (1 ½ mks)
- .....
- .....
- .....
9. State five factors to consider when selecting a nursery site (2 ½ mks)
- .....
- .....
- .....
- .....
- .....
- .....
10. List five post-harvest practices carried out in tomatoes. (2 ½ mks)
- .....
- .....
- .....
- .....
- .....
- .....
11. Why is it not advisable to use manure in carrot production (½ mk)
- .....
- .....
12. Give four advantages of communal tenure system (2 mks)
- .....
- .....
- .....
- .....
13. Give two ways which check dams control soil erosion (1 mk)
- .....
- .....
14. State five disadvantages of weeds in crop production (2 ½ mks)
- .....
- .....
- .....
- .....
- .....

.....  
15. Name any three insect pests with biting and chewing mouth parts (1 ½ mks)

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.....  
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.....

16. State four factors affecting the efficiency of pesticides (2 mks)

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.....

17. State the law of substitution as used in Agricultural economics (1 mk)

.....  
.....

18. Differentiate between complementary products and supplementary products (2 mks)

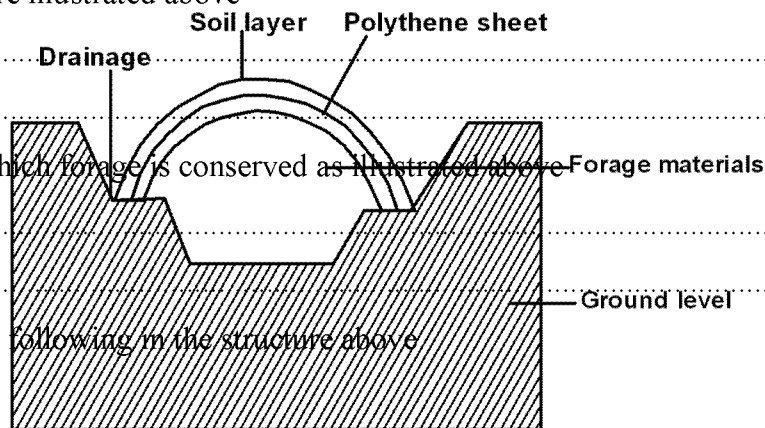
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**SECTION B (20 MARKS)**

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

19. The diagram below shows a method of forage preservation

- i) Identify the structure illustrated above (1 mk)



- ii) State the form in which forage is conserved as illustrated above (1 mk)

- iii) Give the role of the following in the structure above (2 mks)

a) Polythene sheet

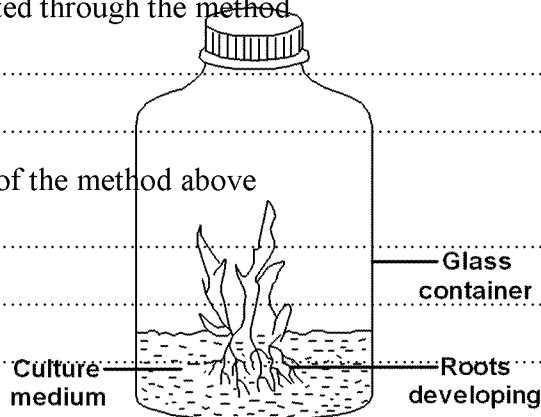
b) Drainage

20. The diagram below illustrates a method of crop propagation

- a) Identify the method of propagation (1 mk)

- b) Name one crop propagated through the method (1 mk)

- c) State three importances of the method above (3 mks)



21. The following diagram shows a method of compost preparation

a) Identify the method (1 mk)

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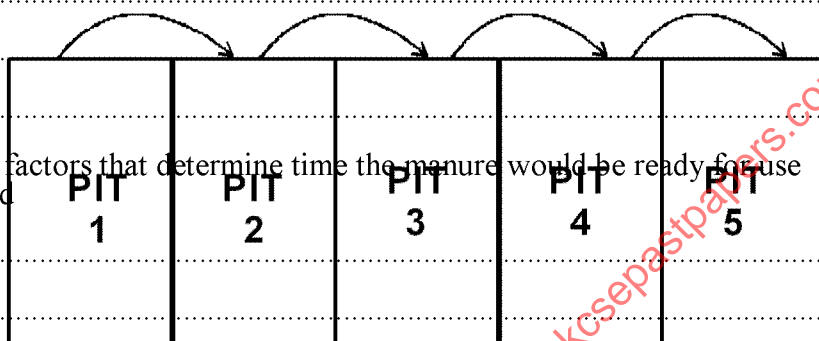
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b) Give four factors that should be considered when siting the compost pit (2 mks)

.....

.....

c) State two factors that determine time the manure would be ready for use in the field (2 mks)



22. Identify the following methods of harvesting agroforestry trees (3 mks)

a)

b)

.....

.....

c)

.....

.....

d) List three sites of agroforestry trees and shrubs

(3 mks)

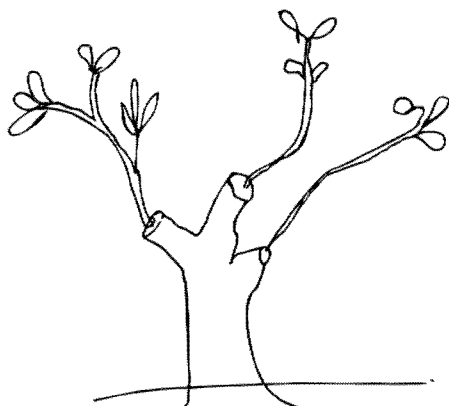
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**SECTION C**  
**Choose only 2 questions**

23. The following accounts information is from Martin's farm for the year ending 31st /12/2006



- a) using the information above, prepare a profit and loss account for Martin's farm (10 mks)
- b) From the calculations in (a) above state whether Mr. martin made a profit or loss (2 mks)
- c) Explain four ways in which farmers may adjust to uncertainties (4 mks)
- d) Discuss four agricultural support services available to the farms (4 mks)
24. a) Describe the methods used in preparing materials in readiness for planting (6 mks)
- b) Explain three factors that influence timely planting (6 mks)
- c)

Opening valuation	6,000/=
Paid wages	5,000/=
Bought equipment worth	18,000/=
Bought pig feeds worth	4,000/=
Sold mature pigs worth	7,000/=
Bought drugs worth	3,2000/=
Closing valuation	4,000/=
Solid maize worth	8,000/=
Rice in store	45,000/=
A tractor	300,000/=
Granary	20,000/=
Sold piglets worth	4,000/=
Sold cattle worth	80,000/=

(8 mks)

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