

Name Index No.

443/2

AGRICULTURE

Paper 2

July/August 2014

Time: 2 Hours

Candidate's Signature

Date

WESTLANDS FORM 4 JOINT EXAMINATION
Kenya Certificate of Secondary Education

AGRICULTURE

Paper 2

July/August 2014

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- * Write your name and index number in the spaces provided above.
- * Sign and write the date of the examination in the spaces provided above.
- * This paper consists of three sections A, B and C
- * Answer **ALL** the questions in section A and B and any **TWO** questions in section C.
- * All answers must be written in the spaces provided in this booklet

For Examiner's Use Only

Section	Questions	Maximum score	Candidate's score
A	1 - 19	30	
B	20 - 23	20	
C		20	
		20	
Total score		90	

SECTION A: (30 Marks)

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

1. Give four characteristics of exotic cattle (Bos Taurus) that make them not survive well in arid areas. (2 marks)

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2. State three reasons for debeaking birds in poultry management. (1½ marks)

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3. Name any four infectious livestock disease causing organisms. (2 marks)

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4. Name the breed of the goat which is brown in colour with white stripes running down. The face of the nose. (½ mark)

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5. List four components of power transmission system in a tractor. (2 marks)

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6. Mention two reasons for choosing animal power instead of tractor power on the farm. (1 mark)

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7. State four advantages of using concrete in building farm structures. (2 marks)

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8. Give two advantages of using thatch as a roofing material in farm structures. (1 mark)

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9. Name two examples of the harvesting machines commonly used on the farm. (1 mark)

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10. Give four reasons for culling a breeding boar. (2 marks)

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11. State the cause of grass staggers in sheep. (½ mark)

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12. State four qualities of good honey. (2 marks)

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13. Give two reasons for treating timber for constructing farm building. (2 marks)

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14. State four functions of a footbath in a plunge cattle dip.

(2 marks)

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15. Give three reasons of spreading a polythene paper (PVC) on the slab of permanent farm building.

(1½ marks)

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16. State two functions of a coulter on a mould board plough.

(1 mark)

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17. State two functions of a carburetor in a petrol engine.

(2 marks)

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18. State four roles played by the engine oil in a tractor engine.

(2 marks)

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19. What is the difference between a tenon and a cross cut saw.

(1 mark)

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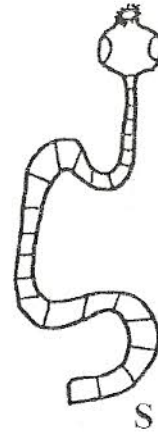
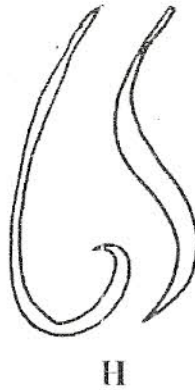
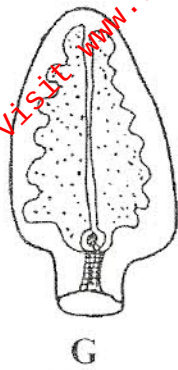
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SECTION II: (20 Marks)

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

20. The diagrams labelled G, H and S below illustrate three livestock parasites. Study them and answer the questions that follow.



- a) Identify the parasites :

(½ marks)

G

H

S

- b) State the category to which the three parasites G, H and S belong to

(1 mark)

.....

- c) Name the parts of organs of the host body where parasites G and S are found respectively.

(1 mark)

G

S

- d) Name the intermediate hosts for each of the parasites G and H

(1 mark)

G

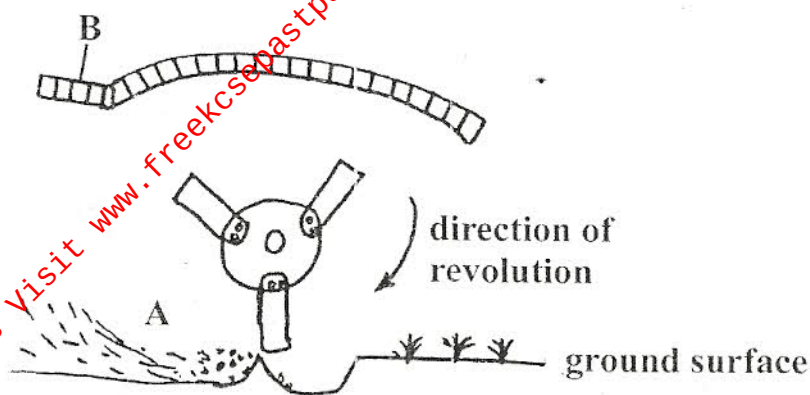
H

- e) State any three control measures of the parasite G

(1 mark)

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21. The diagram labelled A below illustrates a farm implement. Study it and answer the questions that follow.



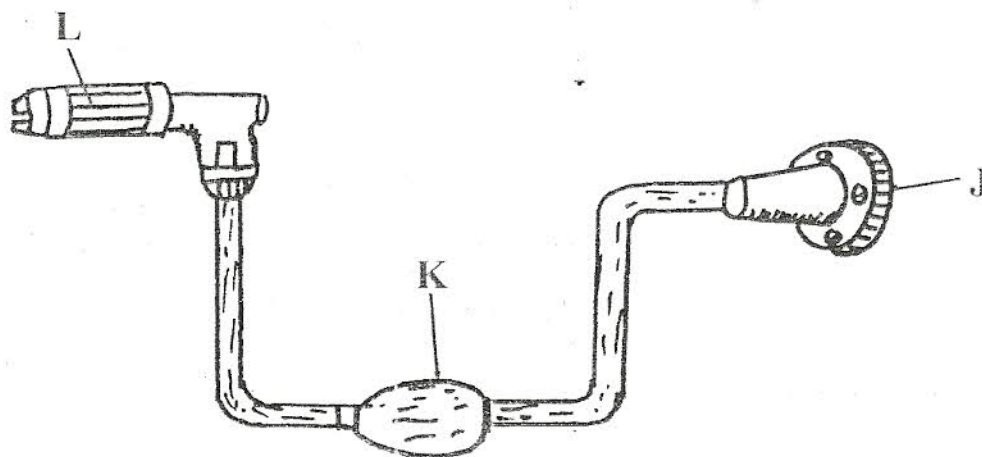
- a) Identify the implement labelled A (1 mark)

- b) State two field conditions where implement A is useful. (1 mark)

- c) State two functions of the part of the implement labelled B (1 mark)

- d) Outline four maintenance practices of the above implement. (2 marks)

22. Study the diagram of a workshop tool illustrated below and answer the questions that follow.



a) Identify the tool labelled X above.

(1 mark)

b) Name the parts labelled J, K and L

(1½ marks)

J

K

L

c) State the use of the following :

i) Tool X in (a) above

(½ mark)

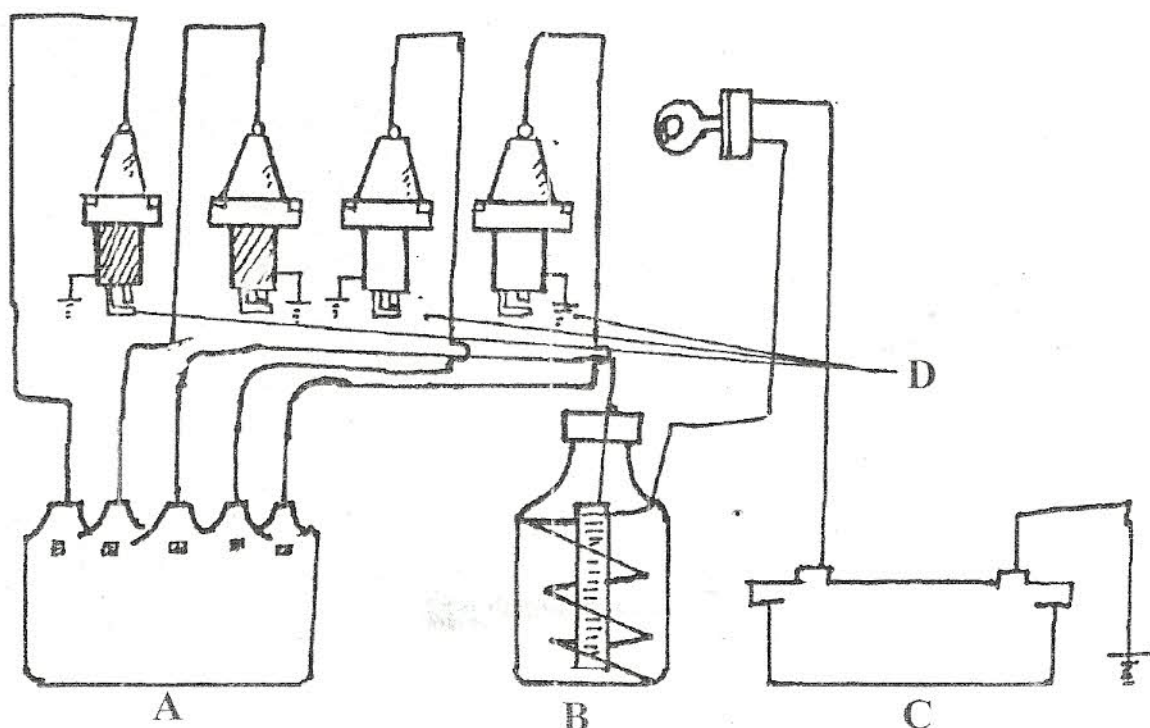
ii) Part labelled L on tools X in (a) above.

(½ mark)

d) State three repair and maintenance practices that should be carried out on the tool X in (a) above.

(1½ marks)

23. Study the diagram below of the ignition system of a petrol engine and answer the questions that follow.



a) Identify the parts labelled A, B, C and D

(2 marks)

- A
- B
- C
- D

b) Give the functions of parts A and B

- A
- B

SECTION C : (40 Marks)

Answer any two questions from this section in the answer sheet provided.

24. a) Describe fish management under the following sub-headings :

- i) Stocking the pond (3 marks)
- ii) Management practices that would ensure maximum harvest of fish from the pond. (5 marks)
- iii) Methods of preserving fish (2 marks)

b) Discuss bee management under the following sub-headings :

- i) Locating of the beehive (2 marks)
- ii) Pests and diseases (4 marks)
- iii) Outline four factors that determine the quality of honey. (4 marks)

25. a) Describe Newcastle disease under the following sub-headings :

- i) Animals attacked (1 mark)
- ii) Incubating period (1 mark)
- iii) Causal agent (1 mark)
- iv) Symptoms (6 marks)
- v) Prevention and control (4 marks)

b) Describe the artificial rearing of a day old chick to the end of brooding. (7 marks)

26. a) Describe the maintenance practices needed in a tractor battery. (7 marks)

b) Explain the methods of maintaining farm tools and equipments. (8 marks)

c) Explain the factors one would consider to ensure fast and effective cultivation by oxen. (5 marks)

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