Name:	Index No:
	Candidate's Signature:
443/1	Date:
AGRICULTURE	
PAPER 1	
JULY/AUGUST-2015	

# KAKAMEGA CENTRAL SUB-COUNTY JOINT EVALUATION EXAM

# Kenya Certificate of Secondary Education

443/1 Agriculture Paper 1 2 hours

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TIME: 2 HOURS

## **INSTRUCTIONS TO CANDIDATES:**

- This paper contains three sections A, B and C
- Answer **ALL** the questions in section A and B
- Answer any **Two** questions from section C
- All answers should be written in the spaces provided.

### FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-19	30	
В	20-23	20	
		20	
		20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

# SECTION A (30 MARKS)

# Answer ALL questions in this section in the spaces provide

1. 	State three physical characteristic used in soil classification	(1 ½mks)
 2. 	Give <b>two</b> types of metal pipes used on the farm to convey water	. (1mk)
3. 	List <b>four</b> methods of drainage	(2mks)
 4.	Distinguish between minimum tillage and sub-soiling as used in agricultural production	(2mks)
5.	Name the branches of horticulture that deal with the following	 (1 ½ mks) 
6.	Name <b>two</b> methods used in preparation of compost manure	 (1mk) 
7.	Name <b>three</b> types of farm records that a sheep farmer should keep	 (1 ½mks) 
8.	Give <b>three</b> symptoms of sulphur deficiency	 (1 ½ mks) 
9.	Name <b>three</b> vegetative materials used in propagation of pineapples	 (1 ½ mks) 
10.	State <b>three</b> materials used to prepare rooting mixture to fill polythne sleever	 ( 1 ½ mks) 

11. Give <b>three</b> disadvantages of mulching in crop productio	
12. State <b>three</b> that result in tomatoes due to application of t	oo much nitrogenous fortilisers (1 ½ mks)
13. Outline <b>four</b> causes of land fragmentation and subdivision	
14. Differentiate between settlement and resettlement as use	d in agricultural economics (2mks)
15. Stare <b>four</b> factors influencing mass wasting / solifluction	(2mks)
16. Name <b>four</b> types of terraces	(2mks)
17. a) State <b>five</b> environmental factors that affect the selection	vity and effectiveness of herbicides ( 2mks
b) State <b>three</b> methods of weed control in padly rice	(1 ½ mk

#### **SECTION B (20 MARKS)**

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Answer ALL the questions in this section in the spaces por B. The diagrams below illustrate common weeds on the farm. Study them can be a section of the spaces of the section in the spaces property of the section in the section in the spaces property of the section in the se	
questions that follow  D  E	F
a) Name the weeds illustrated by figures <b>D,E</b> , and <b>F</b>	(3mks)
D E	
b) Why is control of weed <b>F</b> difficult	(1 1)

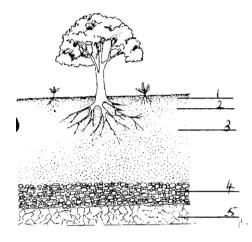
a) What is plant population?

20

(1mk)

b) Patricia was advised to plant her maize crop at a spacing of 90 x 30cm. Calculate the plant population if her plot measures 93m x 42 m. (2mks)
 Show your working (3mks)

21. The diagram below illustrates a soil profile. Study it carefully and answer the questions that follow



- 22. The diagrams below illustrate common crop pests on the farm. Study them carefully and answer the question that follow.



P a) Name the pest illustrated in figure **P** and **S** (2mks)S ...... b) State **two** control methods of the pests in fig P (2mks) **SECTION C (40 MARKS)** Answer any two questions on separate answer sheets provided 23 a) State and explain how soil loses fertility (12 mks) Outline **four** problems associated with manure use in agricultural production (4mks) b) c) Give four characteristics of plants suitable for green manure (4mks) 24 a) Explain the factors considered in choosing seed rates (8mks) b) Describe the production of cabbages under the following sub headings i) Nursery establishment and management (6 mks) ii) Transplanting (6mks) 25. a) Give the reasons for top dressing pastures. (5mks) b) Outline the advantages of zero grazing (stall feeding) (5mks) c) State and explain **five** physical measures of controlling crop pests (10mks) 

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DATE: .....

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**AGRICULTURE** 

PAPER 2

**JULY/AUGUST-2015** 

www.eeducationgroup.com

**TIME: 2 HOURS** 

# KAKAMEGA CENTRAL SUB-COUNTY JOINT 443 EVALUATION EXAM-2015

PAPER 2

JULY/AUGUST-2015

**TIME: 2 HOURS** 

## **INSTRUCTIONS TO CANDIDATES:**

- 1. Write your **name** and **index number** in the spaces provided.
- 2. **Sign** and **write the date** of examination in the spaces provided
- 3. This paper consists of three section A,B and C

- 4. Answer all the questions in section A and B
- 5. Answer any two questions in section C
- 6. All the questions should answered in the spaces provided

# **FOR EXAMINER'S USE ONLY**

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-18	30	
В	19 - 23	20	
C		20	
		20	
	TOTAL		

This paper consists of 8 printed pages.

Candidates should check the question paper to ascertain all the pages are printed as indicated And no questions are missing.

## **SECTION A (30 MARKS)**

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

1.	(a) What is a notifiable disease	(lmk)	
	(b) Name <b>two</b> notifiable diseases of cattle		(lmk)
2.	Give <b>four</b> faults in the eggs that are detected during egg candling		(2mks)
	2		

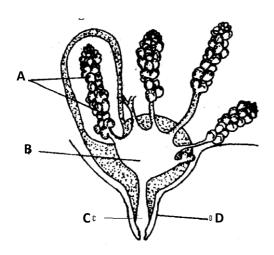
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3.	Give <b>two</b> reasons for maintaining farm tools	(lmk)
4	(a) Give <b>two</b> roles of litter in a deep litter poultry house	(lmk)
	(b) State <b>one</b> role of footbath in a poultry house	(½ mk)
5.	Mention <b>four</b> advantages of embryo transplant	(2mks)
6.	Give functional difference between the following tools  (a) Stock and die and pipe cutter	(2mks)
	(b) Ball pein hammer and claw hammer	
7.	State <b>four</b> features of an ideal calf pen	(2mks)

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8.	State <b>four</b> signs of furrowing observed in pigs	(2mks)
9.	State <b>three</b> methods of restraining cattle	(1½ mk
		·
10.	List <b>four</b> structural requirements of a grain store	(2mks)
11.	Name <b>two</b> types of mowers a farmer can use in the farm	(lmk)
12.	Name the dairy breed of cattle which	(lmk)
	(a) Produces the highest yield of milk	

	(b) Produces milk with the highest butterfat content		
13.	State <b>four</b> pre-disposing factors of mastitis		(2mks)
14.	Name any <b>two</b> renewable sources of power in the farm	(lmk)	
15.	State <b>four</b> factors considered when computing a ration for livestock on the farm	(2mks)	
	SECTION B (20MARKS)		
	Answer all questions in the spaces provided		
16.	State <b>two</b> ways in which digestion of food in pigs differs from that in Ruminants		(2mks.)
17.	State <b>two</b> conditions which would make it necessary to feed bees		(lmk)
-			· · · · · · · · · · · · · · · · · · ·
18.	State <b>four</b> disadvantages of natural mating as a method of breeding in dairy cattle		
	management		(2mks)

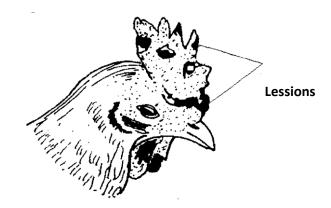
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	SECTION B (20 MARKS)
	Answer all questions in this section in the spaces provided
19.	The diagram below is a cross section of part of a cow's udder.



a) Label the parts marked <b>A,B,C</b> and <b>D</b>	(2mks)
<b>4</b>	
3	
C	
D	
o) Name <b>two</b> hormones that control milk - let down in a dairy cow.	(2mks)

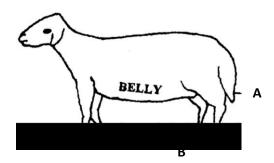
20. The diagram below shows the head of a chicken having symptoms of a poultry disease.



21. A diagram of a sheep is shown below. Study the diagram and answer the questions that follow

(a) Identify the disease.	(1mark)
b) Give <b>two</b> reasons why the disease is of economic importance.	(2marks)
c) Outline <b>two</b> methods of controlling the above disease.	(2marks)

21. A diagram of a sheep is shown below. Study the diagram and answer the questions that follow



- ii) What operation is usually carried out on the part labeled A?

  (1 mark)

  iii) Give **two** reasons for carrying out the operation stated in a(i) above?

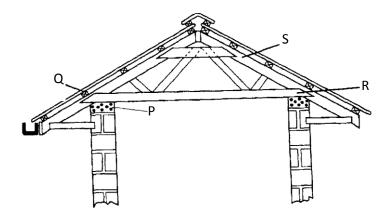
  (2 mark)

  iii) Which routine is usually carried out on the part labeled B.

  (1 mark)

  iv) Name the disease that is likely to affect the sheep if the operation stated in a(iii) above is not carried out.

  (1 mk)
- 22. The following diagram shows parts of a roof. Study it carefully and answer the questions that follow.



(a) Name the parts labeled <b>P</b> , <b>Q</b> , <b>R</b> and <b>S</b>	(2mks)
P	
Q	
R	
S	
(b) State the functions of <b>P</b> and <b>Q</b>	(2mks)
P	
Q	
(c) State <b>two</b> ways of treating timber	(I mks)

# SECTION C (40 mks)

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

23. (a) Discuss the management of layers from one day old to the start of laying in a deep litter

	system.	(14 mk	s)
	(b) Explain management practices that would improve fish production.	(6 mks	)
24	(a) Discuss mastitis disease under the following subheading:		
	(i) Specific causal organisms		(2 mks)
	(ii) Predisposing factors	(5 mks	)
	(iii) Symptoms	(4 mks)	)
	(iv) Control and treatment		(5 mks)
	(b) State <b>four</b> ways by which a farmer can identify an animal suffering from worm infest	ation.	
			(4 mks)
25.	a) Discuss the importance of farm fences.		(9mks)
	b) State the factors considered when siting farm structures.		(11 mks)

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