KCSE 2022 PREDICTIONS

5 STAR EXAMS SERIES 001/1/2022

443/2 – AGRICULTURE – PAPER 2

(THEORY)

TIME: 2 Hours

Name: …… **Adm No:** ……

Index No: …… **Sign:** …… **Date:** ……

Instructions to candidates

1. *This paper has three sections **A , B** and **C.** Answer all questions in section A and B in the spaces provided.*
2. *Answer any Two questions in section **C** in the spaces provided.*

For Examiners use only

Section	Question	Maximum Score	Candidates Score
A	1 -20	**30**	
B	21 – 24	**20**	
C	25-27	**40**	
	TOTAL		

SECTION A (30 MARKS)

1. List two sources of farm power which are environmentally friendly. (1 mark)

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2. Name the causal agent of East Coast fever (E.C.F) in cattle. (½ mark)

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3. What is cropping in fish farming?
   (1 mark)

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4. (a) State two reasons for hoof trimming in sheep management.
   (1 mark)

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   (b) Name one tool used to carry out hoof trimming.
   (1 mark)

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5. State three qualities of good stockman.
   (1 ½ marks)

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6. Outline the importance of feed additives.
(2 marks)

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7. Name the most appropriate tool for the following operations.
(1 ½ marks)

(a) Cutting heavy gauge metal sheet

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(b) Marking a parallel line along the edge of a piece of timber.

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(c) Preventing mortar from falling as it is being applied between stones.

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8. Name the structure that is used to ensure that honey comb and brood combs are found in different chambers. (1 mark)

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9. State three ways used to improve production of indegenous cattle. (1 ½marks)



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10. State two conditions under which a farmer can only use ox-drawn implements and not tractor drawn implement. (1 mark)

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11. Name the management practices taken to discourage egg eating in poultry unit. (2 marks)

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12. Outline four non-chemical methods of controlling ticks in cattle. (2 marks)

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13. Give four signs of oestrels in cows. (2 marks)

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14. State two practices carried out to increase the durability of timber. (1 mark)

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15. State four factors that would contribute to depreciation of farm of farm equipment. (2marks)





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16. List two methods of identification in pigs. (1 marks)

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17. State four roles of worker bees in a colony. (2 marks)

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18. Give two reasons for having a footbath in a cattle dip. (1 mark)

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19. List five symptoms of attack of livestock by round worms. (2 marks)

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20. State four characteristics of roughages in livestock feeds. (2 marks)

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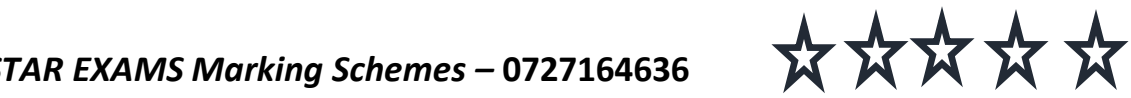

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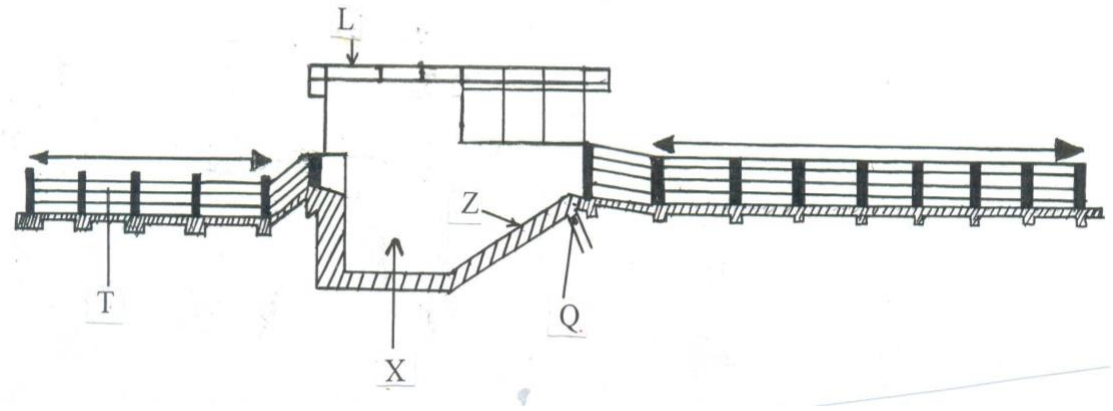
SECTION B

21 Study the illustration of the farm structure below and answer the questions that follow.



(a) What is the structure used for? (½ mark)

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(b) What is the main role of the parts marked (2 marks)

T.....

L .....

(c) Name the parts marked (1½marks)

X .....

Z .....

Q .....

(d) State **two** factors considered in siting the structure. (1 mark)

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22. (a) The solar radiation has become an important source of farm power. Briefly explain how solar is obtained. (2 marks)

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(b) State **three** limitations associated with solar radiation. (3 marks)

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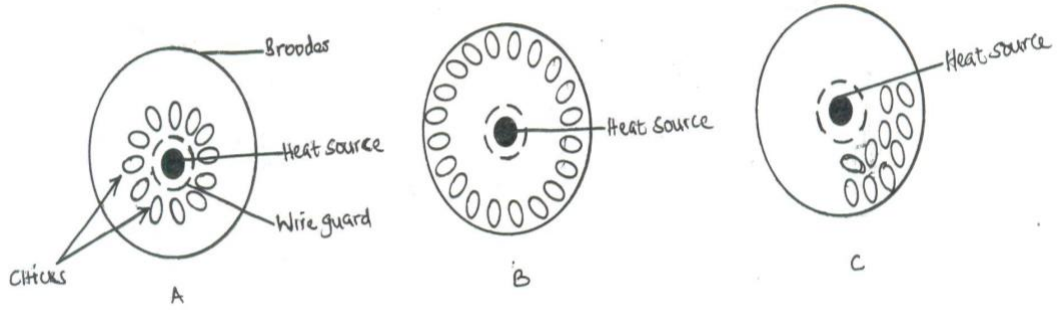
23 Below are illustrations showing behaviour of chicks in various brooders. Study the diagrams and answer the questions that follow.



(i) State the environmental problem in each brooder as illustrated by the behaviour of the chicks. (3 marks)

A

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B

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C

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(ii) State two ways of overcoming the problem in B. (2 marks)

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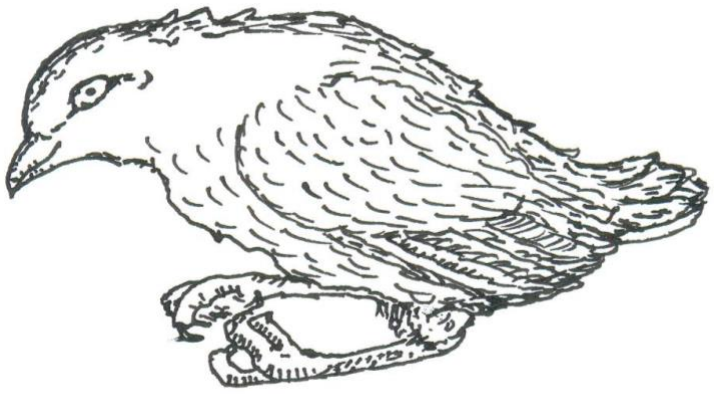
24 Study the chicken condition illustrated below and answer the questions that follow.



(a) Identify the deficiency nutrient responsible for the condition above.
(1 mark)



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(b) State the condition shown above in the diagram.
(1 mark)

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(c) In animal nutrition define the following terms.
(3 marks)

Feed

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Feed stuff

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Concentration

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SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided

25 (a) Describe any ten factors a farmer would consider when selecting a young female pig (gilt) for breeding (5mks)

(b) Describe the management practices a farmer should carry out in rearing of gilt from time it's weaned upto the time it farrows (15mks)

26 (a) Give ten differences between petrol and diesel engine (10mks)

(b) Outline five advantages of farm mechanization (5mks)

(c) Explain any five factors considered in selection of construction materials (5mks)

27 Discuss East Coast Fever under the following sub-headings

(a) (i)Casual organism (1mk)

(ii) Transmission or spread method (1mk)

(iii) Livestock species attacked (1mk)

(iv) Symptoms of attack (1mk)

(v) Control measures (1mk)

(b) Outline the differences between deep litter and battery cage systems of poultry rearing (10mks)

(c) Discuss five factors that affect the composition of milk (5mks)

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