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2425/102 PRINCIPLES OF ANIMAL PRODUCTION I June/July 2011 Time: 3 hours





THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN AGRICULTURE MODULE 1

PRINCIPLES OF ANIMAL PRODUCTION I

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination:

Answer booklet;

Calculator;

Answer FIVE questions out of EIGHT questions.

Each question carries equal marks.

Maximum marks for each part of a question are as shown.



This paper consists of 3 printed pages.

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

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June 2011

ł.	(a)	Enumerate ten signs of disease infection in farm animals.				(10 marks)	
	(b)	(i)	nnimal health.				
		(ii) Explain three disease preventive measures on the farm.				(10 marks)	
2.	(a)	Stat	e five factors that determine the size	of the oil	, i.e. in		
		52000	to in snage conservation	n. (5 marks)			
	(b)	Use	the information below to assess at			(5 marks)	
	1-7	030	the information below to answer the	question	ns that follow:		
		Dail	y consumption of silage/day/cow		40kgs		
		Dun	ation of the dry period	-	60 days		
			nber of cows to be fed	-	5		
		Weig	ght of 1m3 of ensiled material	-	500kg		
		Determine:				(3	
		(i)	The total amount in Kgs required	for the d	ry season feeding		
		173600			-y evasarreeding.		
		(ii)	The number of m ³ of silage requir	red.			
		(iii)	If the silo is 2m wide and 1m deep	p, calcula	te the length required.	(6 marks)	
	(c)	High	light:				
		(i)	Five sources of nutritional loss du	ring hay	making process;		
		(ii)	Advantages of baling hay.			(9 marks)	
3.	(a)	Ctota				(> minks)	
	(4)	State	the meaning of the following:			100	
		(i)	Range lands				
		(ii)	Range management				
			- Irogation - collection of the	ned great	FAS	(4 marks)	
	(b)	Highl	ight the management strategies that I ht related losses Adopted fourth	pastoralis	st should adopt in minin	nizing	
	(c)	Highlight the management strategies that pastoralist should adopt in minimizing drought related losses Adapted bottle of town - Jupated without (10 marks) - Resolved drove one Inches of the following range management practices:					
		(i)				. Il water luiere	
		(ii)	Bush control; - Bushing - Proceeding Water distribution; - Construction	9	done impaired makes	7	
		(iii)	Reseeding _ collection of gozi	Seel		(6 marks)	

			A STATE OF THE STA	HE Was STATE			
4.	(a)	Desc	ribe the following in animal production.	O D ACME			
		(i)	requirements of livestock housing;	SEP 2011 -)			
		150	industrial of inspect normalist	11 mmmm 19			
		(11)	hand milking procedure.	(12 marks)			
	(b)	Desc	ribe the following management practices:				
		(i)	Drenching;				
		(ii)	Identification.	(8 marks)			
5.	Discuss East Coast Fever (E.C.F.) and Contagious Coprine Pleuro Pnemonia (CCPP) under the following:						
	(i)	Trans	mission / causative agent;				
	(ii)	Signs	and symptoms;				
	erra						
	(iii)		ention and control.	· (20 marks)			
6.	Expl	Feedlot; - Agis to who party towards on right to the production to the first the production of the first towards to the first towards towards to the first towards to the first t					
	(i)	Feed	Ot - Agin 4 who going wands are right to the	high production 10 Franch			
	(ii)	Inten	sive; - With withying finder from play to	and the first is sheller wither			
	(iii)	Pasto	ral; -policionment was the Expense and into	wine will a limbers-			
	(iv)	Semi	intensive Acombination of backered Air P	ended to for (20 marks)			
7.	(a)	Intensive; With the property finder from plan to an love with it electron materials. Pastoral; - proceeding the property of last product to the (20 marks) Semi-intensive A combination of last Education of the product to the (20 marks) Attractic because free weeks and beattered the product to the (20 marks) Identify the various classes of feed stuff. (2 marks)					
	(b)	Expla	ain how the following influence feed intake in animal	is:			
		(i)	Feed factors;				
		(ii)	Animal factors.	(18 marks)			
8.	(a)	Expla	ain the term selection in animal breeding.	(8 marks)			
	(b)	Expla	ain the following as used in animal breeding:				
		713	Out associates				
		(i) (ii)	Out crossing; Crossbreeding;				
		(iii)	Crossbreeding; Inbreeding;	9 3 cm			
		(iv)	Hybrid vigour;	25			
		(v) (vi)	Heritability	JUN 2016			
		(vi)	nentability	(12 marks)			
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