

"Investing in Africa's future"

# COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NAAS 417/ AAS 307: DAIRY MANAGEMENT

#### END OF SECOND SEMESTER FINAL EXAMINATIONS

### **MAY/JUNE 2020**

LECTURER: MR. P. B. MUVHURINGI

**DURATION: 48 HRS** 

#### **INSTRUCTION**

Choose and Answer ONE question Only

All Questions Carry Equal Marks (100)

## Question 1

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1.	a. Discuss the nutritional challenges and remedies for dairy farmers when the transition dairy cow.	feeding [25]		
b. Identify challenges which are faced by the dairy industry in Zimbabwe. Suggest ways to improve the dairy industry. [25]				
c. Describe and explain the following in milk quality analysis				
i.	Organoleptic tests	[10]		
ii.	Methelene blue test	[10]		
iii.	Freezing point determination test	[10]		
iv.	Total bacterial Count	[10]		
v.	Somatic Cell Counts	[10]		
Question 2				
2.	a. Which dairy parlour will you choose for a smallholder dairy farmer? E why you will recommend that dairy parlour?	xplain [20]		
b. Identify and explain causes of milk contamination and suggest ways of reducing milk contamination on a dairy farm. [20]				
c. Advise the farmer on the role of the following in galactopoiesis				
	i. Hormones	[20]		
	ii. Milking frequency	[10]		
	iii. Milking interval	[10]		
d. Suggest and recommend a farmer on how to feed the transition dairy cow.		[20]		
Question 3				
3.	a. Which breed of dairy cattle will you recommend for a smallholder farmer in Mutasa District? In you answer indicate the reasons for choosing that breed. [25]			
	b. Describe and illustrate the calving interval.	[10]		
c. Describe and explain the following in milk quality analysis;				
	i. Strip cup	[10]		
	ii. Resazurin test	[10]		

iii.	Somatic cell Counts	[10]
iv.	Gerber test	[10]
٧.	Total bacterial Counts	[10]

d. Select a feeding system in dairy production that you will recommend to a new smallholder farmer and highlight the reasons for choosing that feeding system.

[15]

#### **END OF EXAMINATION PAPER**