



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF NATURAL RESOURCES AND AGRICULTURE SCIENCES

QUALIFICATION: BACHELOR OF OFFICE MANAGEMENT AND TECHNOLOGY	
QUALIFICATION CODE: 27AGR	LEVEL: 7
COURSE CODE: LRH610S	COURSE NAME: Large Ruminant Husbandry
DATE: July 2019	PAPER: Theory
DURATION: 3 Hours	MARKS: 100

SUPPLEMENTARY / SECOND OPPORTUNITY EXAMINATION QUESTION PAPER	
EXAMINER(S)	Dr. H. R. Amwele
MODERATOR:	Dr. E. Lutaaya

INSTRUCTIONS
<ol style="list-style-type: none">1. Answer ALL four (10) questions.2. Read all questions carefully before answering.3. Number your answers clearly.4. Make sure your student number appears on the answering script.

PERMISSIBLE MATERIALS

1. Examination paper.
2. Examination script.

THIS QUESTION PAPER CONSISTS OF 3 PAGES (Including this front page)

Question 1

- 1.1 Explain the importance of determining dry matter intake (DMI) in livestock? (3)
- 1.2 Explain functions of the following nutrients required for beef and dairy cattle. (3)
 - a) Vitamins (3)
 - b) Water (3)

[9]

Question 2

Answer the following questions on animal diseases.

- 2.1 What are the symptoms of rabies? (6)
- 2.2 Explain how Brucellosis is transmitted. (3)
- 2.3 What are the symptoms of anthrax? (2)
- 2.4 Name the vectors that transmit Trypanosomiasis diseases in Africa and Asia? (2)

[13]

Question 3

- 3.1 Name the different types of sperm abnormal? (6)
- 3.2 Name the different types of penis impairments? (3)

[9]

Question 4

Explain the following stage of the oestrus cycle and the days they occur:

- 4.1 Metestrus (3)
- 4.2 Diestrus (3)

[6]

Question 5

Name 5 viral diseases that commonly affect cattle. (5)

Question 6

What are the modes of actions of the following poisonous plants when consumed by cattle? (16)

Poisonous plants	Mode of action
<i>Geigeria</i>	a
<i>Gratalaria</i>	b
<i>Cestrum laevigatum</i>	c
<i>Solanum kwebense</i>	d
<i>Dicapethalum cymosum</i>	e
<i>Gnidia and Hertia pallens</i>	f
<i>Amaranthus</i>	g
<i>Crotalaria burkeana</i>	h

Question 7

- 7.1 Name 2 organs of the immune system and their functions. (4)
- 7.2 Give the approximate numbers and explain the functions of the following blood cells: red blood cells, platelets/ thrombocyte and leukocytes. (6)

[10]

Question 8

- 8.1 What procedures need to be performed before milking the cow? (4)
 - 8.2 How will you know that the cow udder is affected by mastitis? (2)
 - 8.3 What is the average milking duration of a cow in a milking parlour? (2)
 - 8.4 What procedures should be followed when milking the cow and why are they important? (8)
- [16]**

Question 9

Explain the spoon tube or knife dehorning method. (5)

Question 10

- 10.1 What is the purpose of pregnancy examination? (2)
 - 10.2 Before you perform pregnancy examination in which position do you have to stand? (2)
 - 10.3 What part of the animal body do you have to insert your finger in order to determine if the animal is pregnant? (1)
 - 10.4 How do you move your finger inside? (2)
 - 10.5 What part of the uterus do you need to feel to determine if the animal is pregnant? (2)
 - 10.6 How does the structure palpated during pregnancy examination feel like if the cow is 45 days pregnant? (2)
- [11]**
- Total.....[100]**