

NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES SCIENCES

QUALIFICATION: BACHELOR OF AGRICULTURE		
QUALIFICATION CODE: 07BAGR	LEVEL: 7	
COURSE CODE: LRH610S	COURSE NAME: LARGE RUMINANT HUSBANDRY	
SESSION: June 2019	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 100	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER		
EXAMINER(S)	DR. H.R. AMWELE	
MODERATOR:	DR. E. LUTAAYA	

INSTRUCTIONS	
1.	Answer ALL 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

Define the following terms and expected number of days during dairy management.

Α.	Inter-calving period	(2)
В.	Lactation period	(2)
C.	Service period	(2)
D.	Calving period	(2)
E.	Gestation period	(2)
F.	Dry period	(2)
G.	Steaming up period	(2)
		[14]

Question 2

Explain the following terms and state the period of the oestrus cycle when they occur.

Proestrus

(3)

Estrus (3) [6]

Question 3

- 3.1 What are the signs of heat in a cow? (6)
- 3.2 What are the advantages of Artificial Insemination? (6)

[12]

Question 4

What are the estimated volume (litres) of what in the different compartments of the cattle stomach? (8)

Question 5

Match the four compartments of the ruminant stomach with their functions. (8)

Function	Four compartments of a
	stomach
In which part of the cattle stomach about 50 to 65	Omasum
percent of starch and soluble sugar consumed is	
digested.	
The folds increase the surface area, which increases the	Abomasum
area that absorbs nutrients from the feed and water.	
It is home to a population of microorganisms	Rumen
(microbes or "rumen bugs") that include bacteria,	
protozoa, and fungi.	
Produces hydrochloric acid and digestive enzymes such	Reticulum
as pepsin (breaks down proteins) and receives digestive	
enzymes secreted from the pancreas such as	
pancreatic lipase (breaks down fats).	

Question 6

Explain the meaning of testicle consistency scores 1, 2, 3, 4 and 5.

(8)

Question 7

Explain caustic paste dehorning methods.

(6)

Question 8

8.1 Give an example of nonsurgical castration.

(2)

8.2 What tools do you need when performing nonsurgical castration?

(2) [**4**]

Question 9

What organisms cause the following diseases?

(12)

Diseases	Organism causes the diseases
Anthrax	а
Tuberculosis	b
Malignant oedema	С
Gallsickness	d
Heartwater	e
Nagana	f
Elephant skin disease	g
Coccidiosis	h
Corridor disease	k
Redwater	I
Coli bacillosis	m
Calf paratyphoid	n

Question 10

What target organs are affected by the following toxic plants?

(7)

Poisonous plants	Target organ	
Geigeria	а	
Lantana camara	b	
Dicapdi glaucum	С	
Dicapethalum cymosum	d	
Gratalaria	е	
Amaranthus	f	
Crotalaria burkeana	b	

Question 11

Total	[100]
	[15]
11.2 Explain the functions of the following nutrients required for beef and dairy cattle.	(9)
production? Give 3 examples for each.	(6)
11.1 What macro-minerals and micro-minerals are required for cattle growth and	



NAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF NATURAL RESOURCES AND SPATIAL SCIENCES AGRICULTURE and NATURAL RESOURCES 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: 28 May 2019	PAPER: Theory
DURATION: 3 Hours	MARKS: 100

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

INSTRUCTIONS

- 1. Answer ALL four (11) 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)