

HAMIBIA 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: NRH621s	COURSE NAME: NON RUMINANT HUSBANDRY	
SESSION: NOVEMBER 2019	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 100	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER			
EXAMINER(S)	DR H. R. AMWELE		
MODERATOR:	MR. FRANK KANGUATJIVI		

	INSTRUCTIONS
1.	Answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.

PERMISSIBLE MATERIALS

- 1. All written work MUST be done in blue or black ink
- 2. No books, notes and other additional aids are allowed

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

Question 1 Differentiate between sick and healthy fish.	(10)
Question 2 Give 5 stimulants and explain who they positively affect the spawning cues in fish.	(10)
Question 3 Name and explain the 3 types of fish embryonic development.	(9)
Question 4 Explain the function of chicken autonomic nerves system and sensory organs nerve systems. Autonomic nerves system (ANS).	(5)
Question 5 Explain the mechanism egg fertilization until it is laid.	(10)
Question 6 Answer the following questions on chicken disease a) What are the symptoms of Avian pox? b) How is Newcastle Disease transmitted? c) What are the symptoms of Newcastle Disease?	(4) (4) (5)
Question 7 Define the following terms • Body weight increase/ gain • Specific growth rate • Feed conversion ratio •	(2) (2) (2) [6]
Question 8 Give two examples of fat-soluble vitamins and give 2 examples of their deficiency?	(6)
Question 9 What are the deficiency of the following minerals in pig? Calcium and phosphorus Magnesium Sodium and chloride	(2) (2) (2) [6]

	growth and reproductive da		
	Growth and reproductive da	ata	
Conception - birth			
Starting period			
Age at puberty			
Estrus cycle length			
Reproductive life			
diseases are transmitt			(6)
Question 12	questions on rabbit		
Answer the following		ou disqualify a rabbit.	(6)
Answer the following 12.1 What 6 point you	need to look at before yo		(6) (3)
Answer the following 12.1 What 6 point you			
Answer the following 12.1 What 6 point you 12.2 Name the cause	need to look at before yo	testinal diseases.	
Answer the following 12.1 What 6 point you 12.2 Name the cause Diseases	need to look at before yo	testinal diseases.	
Answer the following 12.1 What 6 point you 12.2 Name the cause Diseases Enterotoxemia	need to look at before yos of the following rabbit in	testinal diseases.	