

TAMIBIA 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: JANUARY 2020	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 105	

SUPPLEMENTARY / SECOND 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.	
	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 (Including this front page)

Question 1 Answer the following questions on fish diseases. 1.1 What are the 3 common body symptoms of fish diseases? (3)1.2 What are the 3 common gills symptoms of infected fish? (3)(6)1.3 What are the fish behaviour that are indication of disease infection [12] Question 2 (6)What are the rules of using the following fish drugs? Rule Hydrogen peroxide Formaldehyde Potassium permanganate Question 3 Explain how the following stimulants how they positively affect the spawning cues in fish. (2)(2) Salinity change (2) Opposite sex [6] Question 4 (9)Name and explain the 3 types of fish spawning. Question 5 What are the functions of the chicken earlobe? (3)Question 6 (10)Explain the hen reproductive system? Question 7 Use a table form to give an example of chicken vaccination program from day 1 to 15/18 weeks by indicating the chicken age, type of disease and rote or mode of vaccination? (16) **Question 8** Define the following terms (2) Protein Efficiency Ratio (PER) (2)Condition Factor (CF) (2)Survival rate [6] Give two examples of water-soluble vitamins and give 2 examples of their deficiency in pig? (6)

Question 10

What are the deficiency of the following minerals in pig?

(2)

Zinc		(2)
Vlanganese		(2) [6]
		[-]
Question 11 Fill in the examples of gro	wth and reproductive data for pigs.	(10)
·	Growth and reproductive data	
Suckling period		
Growing - finishing		
Age at 1 mating		
Estrus period duration		
Maximum productivity		
Question 12 What are the causes of Hog cholera and Trypanosomiasis in pigs, and give two (2) examples of how the diseases are transmitted?		on (6)
13.2 Name 3 types of rabb	u need to look at before you disqualify a rabbit. oit intestinal diseases.	(6) (3) [9] [105]