

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE**

ANSC 455: ANIMAL BY-PRODUCTS

STREAMS: BSC (ANSC) Y4S2

TIME: 2 HOURS

DAY/DATE: MONDAY 06/04/2020

8.30 A.M. –10.30 A.M.

INSTRUCTIONS:

SECTION ONE: ANSWER ALL QUESTIONS (30 MARKS)

1. (a) Define the term by-product [2 marks]
- (b) What percentage of live weight does animal by-product make in cattle, pigs and poultry [3 marks]
- (c) State the uses of the following: [4 marks]
 - (i) Tallow
 - (ii) Gelatin
 - (iii) Honeycomb
 - (iv) Keratin
- (d) State the risk of using animal by-product [3 marks]
- (e) While disposing the animal by-products they can be categorized into three what are they and how are they disposed? [6 marks]
- (f) List advantages of vegetable tanning and disadvantages of mineral tanning [4 marks]

- (g) Has the pharmaceutical industry benefited from animal by-products? [3 marks]
- (h) Fill the table below [5 marks]

Types of by-product	Uses
Heads	
Blood	
Tail	
Stomach	
Lung	

SECTION TWO: ANSWER ANY TWO QUESTIONS (40 MARKS)

2. Explain cattle slaughtering process and how meat inspection is done [20 marks]
3. Discuss how treatment plants would treat wasted for disposal [20 marks]
4. Using relevant examples show how animal by-products are preserved [20 marks]

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