

CHUKA



UNIVERSITY

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**UNIVERSITY EXAMINATIONS**

**RESIT/SPECIAL EXAMINATION**

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

**ANSC 455: ANIMAL BY-PRODUCT**

**STREAMS: BSC ANSC**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 02/02/2021**

**2.30 P.M – 4.30 P.M.**

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**INSTRUCTIONS**

- **Answer all question in Section A and Any two in B.**

**Section A Answer all questions (30 Marks)**

1. Using examples differentiate between animal product and animal by-products. (2 marks)
2. State the uses of the following feathers, offal, blood, hides and skins. (4 marks)
3. Give the advantages and disadvantages of chromium tanning. (2 marks)
4. State poultry by-products and their potential use. (4 marks)
5. Name the conditions for transporting animal by-products. (4 marks)
6. State the common methods of animal by-products preservation. (4 marks)
7. Who is a handler of animal by products? (2 marks)
8. Give the advantages of ionizing radiation on treatment of by-products. (2 marks)
9. Briefly explain methods of processing blood. (6 marks)

**Section B Answer any two questions (40 Marks)**

10. A) Discuss the post-mortem procedure of inspection for big animals. (10 mark)

B) Show the effects of animal by-products to the environment. (10 marks)

11. A) Discuss steam tank rendering as used for meat and bone meal production. (10 marks)

B) A businessman wants to open a slaughter house near your village. Show how you would guide him in treating of the animal by-products. (10 marks)

12. Explain the possible means of treating waste from animal products and by-products processing. (20 marks)

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