



UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

SECOND SEMESTER 2024/2025

[JANUARY – APRIL, 2025]

ANSC 455: ANIMAL BY – PRODUCTS

STREAM: Y4 S2

TIME: 2 HOURS

DAY: TUESDAY, 12:00 - 2:00 P.M.

DATE: 08/04/2025

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE in section A (Compulsory) and any other TWO questions from section B.***

SECTION A; (30 MARKS)

1. Using examples differentiate between animal product and animal by-products. (2 marks)
2. Outline the uses of the following feathers, offal, blood, hides and skins. (4 marks)
3. Describe the pros and cons of chromium tanning. (2 marks)
4. Identify and describe the poultry by-products and their potential use. (4 marks)
5. Describe the conditions for transporting animal by-products. (4 marks)
6. Highlight any four factors that determine the yield of animal by-products. (4 marks)
7. Elaborate on the handler of animal by-products? (2 marks)
8. What is the importance of ionizing radiation on treatment of by-products. (2 marks)
9. Describe the methods of processing blood. (6 marks)

SECTION B; (40 MARKS)

10. a) Describe the methods of preserving hides and skins. (10 marks)
- 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) An entrepreneur wants to open a slaughter house near your village. Guide him in treatment of the animal by-products. (10 marks)
12. a) Explain the possible means of treating waste from animal products and by-products processing. (10 marks)
- b) Describe the procedure for converting intestines into casing. (10 marks)