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**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE (ANIMAL SCIENCE)**

ANSC 455: ANIMAL BYPRODUCTS

STREAMS: B.Sc. (ANSC) Y4S2 & Y3S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 3/8/2012

8.30 A.M. - 10.30 A.M.

INSTRUCTIONS:

Answer all questions in section A and any other two in section B.

SECTION A – COMPULSORY - [30 MARKS]

1. Define the following terms and phrases as used in reference to animal byproducts. [10 marks]
 - (a) Animal byproduct
 - (b) Poultry byproduct meal
 - (c) Blood meal
 - (d) Fish meal
 - (e) Meat meal

2. Explain the meaning of rendering. Also highlight the importance of rendering industry. [6 marks]

3. Explain briefly the raw materials, processing and uses of glue and gelatin as animal byproducts. [5 marks]

4. Outline use of animal byproducts as pharmaceutical products. [3 marks]

5. Briefly discuss Bovine Spongiform Encephalopathy(BSE) in relation to quality and safety of rendered animal feeds. [6 marks]

SECTION B – ANSWER TWO QUESTIONS – [40 MARKS]

6. Discuss processing of lard and tallow. [20 marks]

7. Discuss the following processes in leather processing

- (a) liming [4 marks]
- (b) deliming and bateing [6 marks]
- (c) tanning [10 marks]

8. Discuss processing and uses of poultry feather. [20 marks]
