

EASTERN UNIVERSITY, SRI LANKA

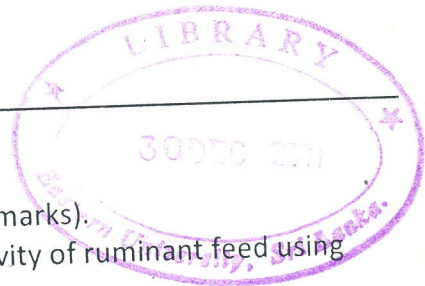
SECOND YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2008/2009

ASC 2101 – NUTRITION AND FEED FORMULATION OF FARM AND AQUATIC ANIMALS

END SEMESTER EXAMINATION

Answer All Questions

Time: 2 Hours



1.
  - a. List out the methods to be used for the feed analysis. (20 marks).
  - b. Briefly discuss the steps involved to determine the digestivity of ruminant feed using live animals. (80 marks)
  
2. Write short notes on the following
  - a. Anti-nutritional factors. (30 marks)
  - b. Pregnancy anabolism in pigs. (30 marks)
  - c. Swill feeding in swine. (40 marks)
  
3. Discuss the following
  - a. Rumen metabolism of protein in dairy cow. (50 marks)
  - b. Energy partition in ruminants. (50 marks)
  
4.
  - a. A White Leghorn hen having a metabolic body weight of 1.5 kg shows the growth rate of 10 g per day. Annual egg production of this hen is 310 eggs. Calculate the following: (state your assumptions clearly). (5x12=60 marks)
    - i. Metabolizable energy needed for maintenance.
    - ii. Metabolizable energy needed for egg production.
    - iii. Metabolizable energy needed for growth.
    - iv. Total dietary energy requirement.
    - v. Calculate the energy level of feed formulated if the feed intake is 100g per day.
  
  - b. Write an account on lipid requirements and their role in fish nutrition (40 marks)