

EASTERN UNIVERSITY, SRI LANKA

SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE-

2002

ASC 2101-RUMINANT AND NON-RUMINANT NUTRITION AND FEED

FORMULATION

END SEMESTER EXAMINATION

Answer all questions.

Time allowed: Three hours

7.6.518 2002

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1. Discuss the following:
 - a) Anti nutritive factors / deleterious factors present in animal feed.
 - b) Apparent and true value of protein digestibility.

 2. a) Briefly discuss the steps involved in *in vivo* method to determine the digestibility of a ruminant feed.
 - b) Discuss the factors affecting the utilization of crude fibre in livestock.

 3. a) Briefly describe the process of protein digestion of ruminants with the help of a flow chart diagram.
 - b) Discuss the importance of urea recycling in ruminants.

 4. Discuss the following:
 - a) Feeding of layer chicks from day old to 8 week old.
 - b) Importance of feeding of sows during gestation.

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5. Write short notes on the following:

a) Feeding of breeder poultry.

b) Swill feeding.

c) Factors affecting appetite of sow during lactation.

6. Write notes on the following:

a) Essential amino acids.

b) Energy sources in livestock feed.

c) Information to be gathered before formulating ration to livestock.
