



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Bachelor of Industrial Studies Programme  
Final Examination- 2010/2011

**AEI4238 BIOLOGY II**

Date : 04.04.2011  
Time : 1400-1700  
Duration : Three (03) hours

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**SECTION 2: Answer any four (04) questions.**

1. Briefly discuss the accessory structures and glands associated with the digestive tract in different farm animals.
2. (a) Distinguish between simple stomach and ruminant's complex stomach  
(b) Explain in detail the microbial fermentation that takes place in the rumen.
3. Write a brief essay on main problems which are caused by the excess amount of single essential amino acid in the diet.
4. (a) What do you mean by "Non nutritive feed additives"?  
(b) Discuss how antibiotics increase the growth promoting effects in farm animals.  
(c) State the strategies for managing anti-nutritive factors.
5. (a) What is a "ration"  
(b) Describe in detail the characters of a ration?  
(c) Briefly explain the production process of silage and hay.
6. (a) Briefly outline the environmental factors that affect the growth and development of farm animals.  
(b) How do you recognise a normal and a sick animal?