



The Open University of Sri Lanka
 Faculty of Engineering Technology
 Bachelor of Industrial Studies (Agriculture) Programme
 Final Examination- 2014
 AEI4238 Agricultural biology

SECTION II

- Contains six questions.
- Answer any **four (04)** questions.
- You may spend **two (02)** hours

1. Describe the structure and functions of ruminant digestive system while comparing the system with monogastric digestive system.
2. Write an essay on endocrine system of farm animals giving special attention to the major endocrine glands and functions.
3. (a) Describe the functions of water in animal body.
 (b) Explain the factors affecting the water requirement of farm animals.
4. (a) Name cattle diseases and the relevant causal agents (pathogens).
 (b) Explain the **two (02)** of above named diseases on following topics.
 - (i) the way of transmission,
 - (ii) clinical signs,
 - (iii) diagnosis,
 - (iv) treatments,
 - (v) prevention and control.
5. Write short essays on any **two (02)** of following.
 - (i) Effect of environmental factors on growth and development of farm animals.
 - (ii) Proximate analysis of animal feed.
 - (iii) Specialized features of poultry digestive system.
6. Write short notes on any **three (03)** of following.
 - (i) The vertebrate nervous system.
 - (ii) Importance of understanding the anatomy and physiology of farm animals.
 - (iii) Classification of carbohydrates.
 - (iv) Unidentified growth factors of farm animals
 - (v) Colostrum feeding.