



The Open University of Sri Lanka
Faculty of Engineering Technology
Final Examination 2005/2006
AEI4238 Agricultural Biology II

Date : 11-03-2006

Time : 0930-1230 hours

SECTION 2

Answer any four (4) questions. All questions carry equal marks.

1.
 - a) What is meant by Homeostasis?
 - b) Briefly explain the functions of hormones.
 - c) List the endocrine glands found in vertebrates and indicate a name of hormone produced by each of them.
2.
 - a) What are the accessory organs and glands associated with digestive system of animals?
 - b) Briefly explain the digestive system of swine
 - c) What are the four divisions of ruminant stomach? Discuss the functions of each of them
3.
 - a) Name the parts of reproductive system of female and male mammal.
 - b) Draw a line diagram of female poultry reproductive system and label all the parts.
 - c) Discuss briefly the structure of the poultry egg.
4.
 - a) What are the three sources from which animals obtain water?
 - b) Discuss the factors affecting water requirement of animals.
 - c) Briefly explain the effect of water in farm animal performances.
5.
 - a) What are the functions of carbohydrate in the animal body?
 - b) Discuss the digestive fate of absorbed lipids.
 - c) What are the problems associated with disproportionate amount of amino acids in the diet?

6.
 - a) Discuss briefly about prenatal growth and post natal growth.
 - b) Draw the actual growth curve of farm animals and briefly explain the stages.
 - c) Discuss how growth curve changes with the quality (nutritive value) of the food.