



The Open University of Sri Lanka
Faculty of Engineering Technology
Diploma/Degree in Technology & Industrial Studies (Agriculture)
Final Examination- 2009 / 2010

AEI 4238 Agricultural Biology II

Date : 18 -03 - 2010
Time : 0930-1230 hours
Duration : Three (3) hours.

SECTION II

1. a.) Explain the important parts of the ruminant digestive system.
b.) Describe the microbial fermentation in the ruminant digestive system.
2. a.) Define the term "Puberty".
b.) Explain the factors affecting the puberty.
c.) Describe the endocrine control of male reproductive system.
3. Write short notes on any four (4) of the following topics.
 - i. Minerals are essential components in the animal diet.
 - ii. Factors affecting the feed intake of ruminants
 - iii. Amino acid requirements of monogastric nutrients.
 - iv. Problems associate with inappropriate amounts of amino acids in animal diet.
 - v. Use of concentrates as animal feeds.
4. a) Briefly explain functions of carbohydrates in animal body.
b) Explain functions of water in animal body.
c) Describe sources of water to obtain by animal body.
5. a) Discuss the role of different non nutritive feed additives.
b) Mention the feed evaluation methods and discuss two of them.
6. a) Explain the influence of temperature on growth and development of animals.
b) Discuss different factors affecting animal health and steps to be taken to minimize diseases in animal production systems.