



The Open University of Sri Lanka
Faculty of Engineering Technology
Industrial Studies Program

Final Examination - 2007/2008

AEI 4238 Agricultural Biology II

Date : 21 - 04 - 2008
Time : 0930 - 1230

SECTION II: Answer any four (04) questions

- (1) (a) Explain the structure of the neuron or nerve cell by using a suitable diagram.
(b) Classify the neurons according to the structure and function.
(c) Briefly describe the peripheral nervous system.

- (2) (a) Compare and contrast the mammal male reproductive system and poultry male reproductive system.
(b) Briefly describe the factors affecting on set of puberty.

- (3) (a) Briefly discuss the important factors that affect the amino acid requirement of farm animals.
(b) List down the water soluble and fat soluble vitamins separately.
(c) Explain the term "Non-nutritive feed additives" with examples.

- (4) (a) Describe the carbohydrate digestion in the rumen.
(b) "Protein utilization in ruminants is different from monogastric animals" discuss the statement.

- (5) (a) Write a short note on general and specific growth promotion.
(b) Describe the role of Somatotrophin : Somatomadin : Somatostatin in growth and development in animals.

- (6) Write short notes on any three (03) of the following.
 - (a) Non infectious disease
 - (b) Contagious mastitis
 - (c) New castle disease (Raniket disease)
 - (d) Internal parasites of poultry
 - (e) Acetonaemia (Ketosis) in cows