



KENYATTA UNIVERSITY

DEPARTMENT OF ANIMAL SCIENCE

Master of Science (Animal Nutrition and Management)

KRM 854 ANIMAL NUTRITION AND METABOLISM

INSTRUCTIONS

3 hours

ATTEMPT ALL QUESTION ONE AND ANY OTHER THREE QUESTIONS

1. a. Discuss the production and functions of the digestive hormones listed below
 - a) Gastrin - (5 MARKS)
 - b) Secretin - (5 MARKS)
 - c) Cholecystokinin (CCK) (5 MARKS)
 - b. Discuss the mechanisms of transport of the following nutrients
 - i. Fats
 - ii. Amino acids
- (10 MARKS)
- c. Discuss the functions of saliva in a named ruminant animal. (5 MARKS)
2. Discuss the digestive process of proteins in ruminants in the stomach.
- (10 MARKS)
3. Discuss the micro-organisms digestion of carbohydrates in ruminants ^{in the} ~~in the~~ stomach.
- (10 MARKS)
4. Discuss the physiological and metabolic roles of vitamins and minerals in livestock diets.
- (10 MARKS)
5. Discuss the digestive functions of exocrine pancreatic secretions. (10 marks)