



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER
SUPPLEMENTARY/ SPECIAL EXAMINATION
FOR THE DEGREE OF BACHELLOR OF SCIENCE IN AGRICULTURE AND
BIOTECHNOLOGY

COURSE CODE: SAB 320

COURSE TITLE: ANIMAL NUTRITION

DATE: 2ND OCTOBER 2018

TIME: 8 – 10 AM

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any TWO in section B.

TIME: 2 Hours

SECTION A: COMPULSORY - 30 MARKS

- Q1.a) Describe five functions of water as a nutrient. **(5 marks)**
- Q1. b) Explain the concept of voluntary feed intake in animals. **(5 marks)**
- Q1. c) Briefly explain two broad criteria of evaluating the nutritive value of food. **(5 marks)**
- Q1. d) Use the formula for estimating dry matter intake in ruminants to calculate the amount of daily fresh fodder intake by a dairy cow given the following conditions: **(5 marks)**
- Cow's live weight is 350 kg;
- Moisture content of the fresh fodder is 70%;
- Daily milk production is 6 kg;
- Q1. e) Discuss the important roles played by the microorganisms in the rumen. **(10 marks)**

SECTION B: ANSWER ANY TWO (2) QUESTIONS - 40 MARKS

- Q2. Discuss factors affecting feed intake in ruminant animals. **(20 marks)**
- Q3. Explain the limitations of digestibility coefficients. **(20 marks)**
- Q4. Explain the partitioning of energy contained in the dietary sources of feeds. **(20 marks)**

END