



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR

THIRD YEAR 1ST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY**

COURSE CODE: SAB 320
COURSE TITLE: ANIMAL NUTRITION

DATE: 09/02/2021. **TIME:** 11-1 PM.

INSTRUCTIONS TO CANDIDATES

There are a total of five (5) Questions.
Answer Question 1 and any other two (2) Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



Q1.

- a) Identify four types of foods based on their moisture content. **(4 marks)**
- b) Define the term “feed intake” giving the all conditions associated with the process. **(4 marks)**
- c) Identify four products from microbial digestion of carbohydrates. **(2 marks)**
- d) Distinguish between digestive systems of ruminants and non-ruminants. **(10 marks)**
- e) Using Pearson square method, estimate the amounts of wheat bran and sunflower seed cake required to produce 70 kg of a compound feed containing 16% crude protein(CP) given that wheat bran contains 10%(CP) while sunflower seed cake contains 28% (CP). **(10 marks)**

Q2. Discuss utilization of non protein nitrogen in ruminants. **(20 marks)**

Q3. Discuss the Proximate method of feed analysis. **(20 marks)**

Q4. Explain the possible pathways of urea molecules incorporated in the diet of a ruminant animal. **(20 marks)**

Q5. Discuss factors affecting forage digestibility. **(20 marks)**

END