



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2016/2017 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: 12TH SEPT. 2017

TIME: 8AM – 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

- 1 a) Discuss the fate of dietary protein fed to the ruminant **(10 marks)**
- b) List the four(4) classes of food based on their water content **(4 marks)**
- c) Discuss digestion in the non-ruminant from the mouth to the Large intestines**(10 marks)**.
- d) Given the crude protein of the raw materials are as follows:

Maize meal 9% CP

Soya bean meal 28% CP.

Show how Pearson square method can be used to formulate feed containing 16% crude protein from maize and soybean. **(6 marks)**

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

2. Briefly describe the methods of estimating digestibility of feeds. **(20 marks)**
3. Outline the proximate method of feed analysis **(20 marks)**
4. Discuss lipid digestion and metabolism in the ruminants. **(20 marks)**

END