

EGERTON



UNIVERSITY

**UNIVERSITY EXAMINATIONS
REGULAR - NJORO CAMPUS**

FIRST SEMESTER, 2018/2019 ACADEMIC YEAR

**THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL SCIENCE**

ANSC 334: BIOTECHNOLOGY IN ANIMAL NUTRITION

STREAM: BSC IN ANIMAL SCIENCE

TIME: 2 HRS

EXAMINATION SESSION: FEBRUARY

YEAR: 2019

INSTRUCTIONS

- i) Answer ALL questions**
- ii) Marks are shown in brackets**

Question One

Using examples discuss the functions of the following micro-organisms in ruminant nutrition:

- a) Bacteria (10 marks)**
- b) Protozoa (3 marks)**
- c) Fungi (2 marks)**

Question Two

Discuss mycotoxins and the role of mycotoxin binders in animal nutrition. **(20 marks)**

Question Three

In reference to Poultry Production, discuss any three (3) effects of probiotics on: **(15 marks)**

- a) Feed intake and utilization**

- b) Growth rate
- c) Health
- d) Product quality

Question Four

Discuss the role and function of any four (4) feed additives fed to ruminants to increase nutritional efficiency.

(20 marks)
