

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF MASTER OF SCIENCE IN ANIMAL
PRODUCTION**

ANSC 834: BIOTECHNOLOGY IN ANIMAL NUTRITION

STREAMS: MSEC ANSC

DAY/DATE: THURSDAY 07/08/2025

TIME: 2 HOURS

2.30P.M. –5.30 P.M

INSTRUCTIONS: ANSWER ALL QUESTIONS

1. Biotechnology is a science that can use simple to high scientific methods. Explain various biotechnological techniques that are used to create new products. [15 Marks]
 2. Explain how biotechnology can be used to improve the nutritive value of feeds. [15 Marks]
 3. Biotechnology is both liked and feared in equal measure. Elucidate on the merits and demerits of science [10 Marks]
 4. Expound the following in relation to biotechnology
 - i. Substantial equivalence [3 Marks]
 - ii. Prion [3 Marks]
 - iii. Transgenic products [3 Marks]
 - iv. Creutzfeldt-Jacob disease [3 Marks]
 - v. Prebiotics and probiotics [3 Marks]
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