



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER
SCHOOL OF NATURAL RESOURCES
ENVIRONMENTAL SCIENCES AND
AGRICULTURE**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION
COURSE CODE: AHP 2206-1
COURSE TITLE: ANIMAL BIOTECHNOLOGY**

DATE: 16/4/2024

TIME: 1430-1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions.

This paper consists of 2 printed pages. Please turn over.

Instructions: Answer all questions. Carefully read all questions before attempting them

1. a) Define the term biotechnology. **(3 Marks)**
b) Describe different applications of genetic engineering in detail. **(17 Marks)**

2. Give the applications of biotechnology. **(20 Marks)**

3. Discuss the importance of biotechnology in disease diagnostics. **(20 Marks)**

4. Describe in detail the importance and applications of bioremediation. **(20 Marks)**

5. Explain the advantages of Embryo transfer, Artificial Insemination and Natural mating. **(20 Marks)**

6. Discuss the detrimental effects that arise from the use of biotechnology. **(20 Marks)**

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