

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF MATSER OF SCIENCE IN
BOTANY (MICROBIOLOGY AND BIOTECHNOLOGY)**

MICB 831: APPLIED MICROBIOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 07/04/2021

2.30 P.M – 4.30 P.M

INSTRUCTIONS:

Answer any three questions

1. (a) Describe characteristics of micro-organisms used for industrial purposes. [10 marks]
 - (b) Discuss the role of microorganisms in waste management and pollution control. [10 marks]
 2. (a) Describe five products that are obtained through industrial microbiology. [10 marks]
 - (b) Outline five safety aspects in biotechnology that should be considered. [10 marks]
 3. (a) Discuss the use of microorganisms in pest management. [10 marks]
 - (b) Explain five challenges associated with industrial microbial processes. [10 marks]
 4. Discuss benefits of genetically engineered microorganisms. [20 marks]
 5. Discuss the application of microbiology in past in agriculture. [20 marks]
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