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University Examinations 2022/2023
SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION SCIENCE

SBA 3402: APPLIED MICROBIOLOGY

DATE: AUGUST 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Describe the malting process used in beer making (6 marks)
- b) Differentiate between bottom fermented beers and top fermented beers (6 marks)
- c) Explain the events that take place in the physiology of bacteria during the lag phase of growth (6 marks)
- d) Describe a given mode of sterilization (6 marks)
- e) Describe briefly aerobic fermentation (6 marks)

QUESTION TWO (20 MARKS)

Discuss the advantages of solid state fermentation over submerged liquid fermentation

QUESTION THREE (20 MARKS)

Write a brief account on the history of applied microbiology



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QUESTION FOUR (20 MARKS)

Discuss beer making processes



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