

MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PHYSICAL AND BIOLOGICAL SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2019/2020 ACADEMIC YEAR

THIRD YEAR **SECOND** SEMESTER EXAMINATION FOR BACHELOR OF EDUCATION (SCIENCE)

ABT 306- INTRODUCTION TO MICROBIOLOGY

DURATION:2 HOURS

Instructions to candidates:

- 1. Answer question One and Any Other Two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

a)	Explain the contribution of Louis Pasteur to microbiology.	(5 marks)
b)	Highlight the differences between eukaryotes and prokaryotes.	(5 marks)
c)	Describe pasteurization as sterilization technique.	(5 marks)
d)	State five (5) different shapes of bacteria.	(5 marks)
e)	Describe the general characteristics of fungi.	(5 marks)
f)	Briefly explain the classification of viruses	(5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Draw and discuss the internal and external structures of a bacteria. (20 marks)

QUESTION THREE (20 MARKS)

Discuss the safety precautions one should adhere to in a microbiology laboratory. (20 marks)

QUESTION FOUR (20 MARKS)

Describe five types of special media that can be used in culturing microorganism in a microbiology laboratory. (20 marks)