

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DIPLOMA IN BOTANY

BOTA 0131: GENERAL MICROBIOLOGY

STREAMS: DIP

TIME: 2 HOURS

DAY/DATE: TUESDAY 09/04/2024

2.30 P.M. – 4.30 P.M.

SECTION A: Answer all questions (30 marks)

1. a) List four symptoms of Rift Fever. (2 marks)
b) Describe any four biotechnology products that are available in different markets. (4 marks)
2. Describe four techniques of coli forms analysis. (4 marks)
3. Discuss elements required for growth of macronutrients. (6 marks)
4. Discuss the contribution of each of the following scientists towards the development of microbiology.
 - a) Robert Koch (2 marks)
 - b) Theodor Schwann (2 marks)
 - c) Lazaro Spattani (2 marks)
5. Classify bacteria according to temperature requirement. (4 marks)
6. State four characteristics of viruses. (4 marks)

SECTION B: Answer any two questions. (40 marks)

7. Describe various types of spores found clearly mentioning the category they fall in. (20 marks)
8. Describe bacterial growth in batch culture. (20 marks)
9. a) Discuss the economic importance of algae. (10 marks)
b) Describe different methods used in sterilization of media and equipment. (10 marks)