

CHUKA



UNIVERSITY

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RESIT/SUPPLEMENTARY EXAM

**EXAMINATION FOR THE AWARD OF BACHALOR OF SCIENCE
IN HORTICULTURE**

BOTA 131/MICB 131: GENERAL MICROBIOLOGY

STREAMS: BSC. HORTICULTURE

TIME: 2 HOURS

DAY/DATE: TUESDAY 17/11/2020

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS

SECTION A (30 MARKS)

1. State any one function of each of the following parts of a bacterium: [5 marks]
 - (i) Somatic pilus
 - (ii) Cell membrane
 - (iii) Nuclear body
 - (iv) Mesosome
 - (v) Capsule
2. Briefly describe the characteristics of basidiomycetes. [5 marks]
3. State any five characteristics common to the algae in division Pyrrophyta. [5 marks]
4. State any five general features of viruses. [5 marks]
5. State the basis for the traditional classification of protozoa and outline the main classes in respect to this approach. [5 marks]
6. Define any five types of culture media used in cultivation of microorganisms.
7. a) Basis for the two possible outcomes of the Gram stain procedure [2 marks]
b) Describe streaking in relation to inoculation of microorganisms. [3 marks]

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SECTION B (40 MARKS)

8. Discuss sexual and asexual reproduction in fungi. [20 marks]
 9. Discuss the control of microbial contamination. [20 marks]
 10. Discuss the criteria for classification of microorganisms. [20 marks]
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