

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD DEGREE OF  
MASTER OF SCIENCE IN BOTANY (PLANT PATHOLOGY)**

**BOTA 806: BACTERIAL PLANT DISEASES**

**STREAM: MSCI. Y1**

**TIME: 3 HOURS**

**DAY/DATE: MONDAY 20 /04/2020**

**11.30 A.M - 230 P.M.**

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**INSTRUCTIONS:**

- Answer Any Three Questions

1. Describe characteristics of the following pathogenic bacteria:
  - a) Agro bacterium [4 Marks]
  - b) Clavibacter (Corynebacterium) [4 Marks]
  - c) Erwinia [4 Marks]
  - d) Pseudomonas [4 Marks]
  - e) Streptomyces [4 Marks]
2. Discuss plant pathogenic bacteria under the following subtopics:
  - a. Morphological types. [8 Marks]
  - b. Gram's staining reaction [12 Marks]
3. Discuss methods used in identification of bacteria. [20 Marks]
4. Discuss in details, methods used to control bacterial diseases in plants. [20 Marks]
5. Discuss the bacterial blights of beans. [20 Marks]