



UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD MASTER OF SCIENCE
IN BOTANY

BOTA 801: METHODS AND TECHNIQUES IN BOTANY

STREAMS: MSC (BOTA)

TIME: 3 HOURS

DAY/DATE: MONDAY 02/12/2019

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS: Answer any THREE questions

QUESTION 1

- (a) Discuss the staining techniques of bacterial cultures [10 marks]
- (b) Discuss any five biochemical tests for identification of bacterial pathogens [10 marks]

QUESTION 2

Discuss the advantages and disadvantages of the following methods:

- (a) Agglutination tests [10 marks]
- (b) ELISA [10 marks]

QUESTION 3

- (a) Discuss the process of gel electrophoresis [10 marks]
- (b) Discuss the indirect methods of plant disease identification and monitoring [10 marks]

QUESTION 5

- (a) Explain how plant in-vitro cultural techniques can be used to improve banana farming [10 marks]
- (b) Discuss the general technique of micro propagation of tissue culture [10 marks]

