



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
MASTER OF SCIENCE IN PLANT PATHOLOGY
SECOND SEMESTER 2021/2022
(FEBRUARY-JUNE, 2022)

BCHM 810: BIOCHEMISTRY OF PLANT DISEASES

STREAM: Y1 S2

TIME: 3 HOURS

DAY: FRIDAY, 9:00 AM – 12:00 PM

DATE: 15/07/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer Question ONE (Compulsory) and any other TWO Questions.***

1. Describe the passive defense mechanisms in plants. (20 marks)
2. Describe the hypersensitive responses during plant defense. (20 marks)
3. Discuss synthesis of salicylic acid and proline and add a note on its various functions. (20 marks)
4. Discuss FOUR secondary metabolites as plant defensins. (20 marks)
5. Discuss how transcriptional networks enhance abiotic and biotic plant stress responses. (20 marks)