CHUKA



UNIVERSITY

(5 marks)

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY AND BACHELOR OF SCIENCE IN MATHEMATICS AND CHEMISTRY

BOTA 453: PLANT PATHOLOGY

STREAMS: BSC BIO& MATH CHEM

TIME: 2 HOURS

DAY/DATE: FRIDAY 06/12/2019 11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- This paper has two sections A and B
- Section A accounts for 30 marks while section B accounts for 40 marks
- Section A is compulsory
- Answer any two questions in section B

SECTION A

(b)

1.	(a)	Describe the functions of a healthy plant. For each t	function give an example of
the		part involved.	(5 marks)

- 2. Describe the following terms as used in plant pathology

Describe disease classification approaches.

(a)	Plant disease	(2 marks)
(b)	Pathogenesis	(2 marks)
(c)	Hyperplasia	(2 marks)
(d)	Hypoplasia	(2 marks)

- 3. Explain the scientific basis for plant pathology being referred as the study of a suffering plant. (2 marks)
- 4. Explain how unknown plant disease is diagnosed. (6 marks)
- 5. Outline sources of inoculum of plant diseases. (4 marks)

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SECTION B

6.	Discuss haloblight	of beans under the	following:	sub-headings

		 (a) Symptoms (b) Disease development (c) Dispersal (d) Survival 	(4 marks) (6 marks) (5 marks) (5 marks)	
7.	(a)	Explain how legislation and regulation can be used to control plant diseases.		
	(b)	Discuss plant defense mechanisms against plant pathogens.	(5 marks) (5 marks)	
8.	(a)	Briefly describe disease triangle.	(5 marks)	
	(b)	Discuss effects of plant pathogens on plant function.	(15 marks)	