

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2015/2016

FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE

AHS 2403: INTEGRATED PEST MANAGEMENT AND PESTCIDE SCIENCE

DATE: NOVEMBER 2015

TIME: 2 HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE (30 MARKS)

a)	In view of the pest concept, describe a pest	(3 Marks)
b)	IPM adheres to three basic principles. Explain	(3 Marks)
c)	List four characteristics of effective biocontrol agents	(4 Marks)
d)	Name any five spray supplements and their functions when added to pesticides	
		(5 Marks)
e)	What is the difference between LD_{50} and LC_{50}	(5 Marks)
f)	As a farm manager, why would you shift to IPM when chemical pesticides so often	
	succeed at controlling pests?	(10 Marks)

QUESTION TWO (20 MARKS)

a) Pest problems may persist even when pesticides have been applied. Discuss

(10 Marks)

b) Describe three ways in which natural enemies can be introduced or maintained in an agricultural ecosystem (10 Marks)

QUESTION THREE (20 MARKS)

a) The technical material of a pesticide is usually processed with other substances before use		
by the operator. Why is it important?	(5 Marks)	
b) Describe any two liquid pesticide formulations	(5 Marks)	
c) In IPM strategies, the use of pesticides is as last resort. Describe the use of pesticide in		
IPM systems	(10 Marks)	

QUESTION FOUR (20 MARKS)

a) Describe ways in which pesticides enter the insect body (10 Marks)
b) Describe the push-pull strategy for managing stem borers and striga weeds in maize (10Marks)