Date: April 2015

THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

P.O. Box 62157 00200 Nairobi - KENYA Telephone: 891601-6 Fax: 254-20-891084 E-mail:academics@cuea.edu

Duration: 2 Hours

JANUARY – APRIL 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)

REGULAR PROGRAMME

BIO 207: ETHNOBOTANY AND PHYTOCHEMISTRY

Date: April 2015 Duration: 2			irs			
Instructions: Answer Question ONE and any other TWO Questions.						
Q1.	a)	Mention THREE centers where agriculture is likely to have origin	ginated. (3 marks)			
	b)	Differentiate a mordant dye from a substantive dye.	. ,			
	c)	List any two commonly used mordants and their effects on the d fabric.	(2 marks) ye and			
	d)		(2 marks)			
	d)	Describe FIVE functions of gums extracted from plants.	(5 marks)			
	e)	Define the term ethnobotany and list the aims of ethnobotany.	. ,			
	f)	Describe key parts of a seed and their functions.	(3 marks)			
	1)		(5 marks)			
	g)	Describe any FOUR characteristics of domesticated plants.				
	h)	Genetically modified crops have been used since early 1990s, di concerns associated with their use.	(4 marks) scuss six			
Q2.	a)	Describe FIVE ways homoishydric plants can keep their water co constant and don't equilibrate with the environment.	(6 marks) content			
	b)	(Discuss any FIVE phytochemicals mechanisms of action that fac secondary metabolites in their antimicrobial activities.	1 0 marks) ilitate			
Q3.	a)		10 marks) ^f			
		(*	10 marks)			
	b)	Write an essay on the role of five secondary metabolites in plants	6.			
CUEA (ACD / EVA / IANUADV - ADDIL 201 E / CCIENCE (D', 1,) Deve 1						

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Q4.	a)	Discuss any FIVE alkaloids and their effects on humans. Describe FIVE methods of drug evaluation.	(10 marks)
	a) b)		(10 marks)
			(10 marks)

END

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