Date: DECEMBER 2019

# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

P.O. Box 62157

**Duration: 2 Hours** 

00200 Nairobi - KENYA

MAIN EXAMINATION

Telephone: 891601-6

### SEPTEMBER – DECEMBER 2019 TRIMESTER

# **FACULTY OF SCIENCE**

## **DEPARTMENT OF BIOLOGY**

#### REGULAR PROGRAMME

**BIO 207: ETHNOBOTANY AND PHYTOCHEMISTRY** 

**INSTRUCTIONS: Answer Question ONE and any other TWO Questions** Q1. a) Differentiate between the following b) Herbarium and seed bank Ethnoecology and ethnobotany c) d) In situ and ex situ conservation (6marks) Describe ways Maa community in maasai mara play a crucial role in e) conservation of plant genetic resources (6 marks) Explain in detail conservation of tradition knowledge and methods for f) protection of traditional knowledge (8 marks) What are the different methods useful for the separation and isolation of g) phytoconstituents from crude extract (5 marks) h) What are factors affecting cultivation, collection and processing of crude drugs (5 marks)

Cuea/ACD/EXM/DECEMBER 2019/SCIENCE (Biology)

QZ.	region	ppogenic activities through years have endangered medicinal plants in ma	зu
	regioi	Briefly explain the role of five local and international bodies mitigating these effects	in
		(10 marks	)
		b) Discuss the human activities that are contributing to this lo (10 marks)	
Q3.	a)	Describe in details five ways crude drugs can be classified (10 marks)	ļ
extrac marks		Describe five techniques used in testing active components in crue (10	de
Q4.	Maas	ai mara reserve was set aside to protect wild species	
		a) Discuss various methods employed to protect medicinal plants (10 marks)	)
		b) Explain role of five alkaloids that are used as medicinal plants	
		(10 marks)	

pathways for phenols and alkaloids

The pathways for primary and secondary metabolites vary describe the

Q5.

marks)

a)

(10

\*END\*