

## DEPARTMENT OF ENVIRONMENTAL SCIENCES

# SECOND YEAR SPECIAL/SUPPLIEMENTARY EXAMINATION FOR

## **BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)**

### ENS 230: ENVIRONMENTAL ECOLOGY

#### DATE: 26/3/2021

#### TIME: 8.30-10.30 AM

### INSTRUCTIONS; Answer question ONE and any other TWO questions

### **QUESTION ONE (COMPULSORY) (30 MARKS)**

a)	Discuss weathering as an important process affecting the physical structure of desert	
	environments.	(10 marks)
b)	Explain how mangroves are adapted to the unstable intertidal marine habitats.	(5 marks)
c)	Describe the term "Population Life Tables" as applied in population ecology.	(5 marks)
d)	Explain the climatic conditions of temperate rain forests.	(10 marks)
QUESTION TWO (20 MARKS)		
Discuss the ecological importance of wetland ecosystems.		
QUESTION THREE (20 MARKS)		
a)	Using illustrations, describe three types of ecological pyramids.	(10 marks)
b)	With the aid of illustrations, describe three types of population survivorship curves.	
		(10 marks)
QUESTION FOUR (20 MARKS)		
a)	Discuss the logistic population growth model.	(10 marks)
b)	Explain three types of natural selections in populations.	(10 marks)
QUESTION FIVE (20 MARKS)		
a)	Discuss fire as an important factor structuring chaparral environments.	(10 marks)
b)	Discuss five factors that threaten the taiga biome.	(10 marks)