

DATE: 30/8/2022

TIME: 2.00-4.00 PM

INSTRUCTIONS

- 1. Answer question 1 (compulsory) and <u>any two</u> questions in Section B.
- 2. Use clean well labelled diagrams wherever appropriate.

SECTION A

QUESTION ONE (COMPULSORY) (30 MARKS)

a)	Describe the three levels of biodiversity	(3 marks)	
b)	Describe the value of biodiversity in ecosystem services	(4 marks)	
c)	Outline the three main guiding principles for conservation biology	(3 marks)	
d)	Describe the core indicators of the state of biodiversity	(3 marks)	
e)	Briefly describe the scientific method as applied to conservation biology	(4 marks)	
f)	Outline the threatening processes for the decline in population	(3 marks)	
g)	Distinguish between species richness and species evenness	(3 marks)	
h)	Outline the three main components of species extinction	(3 marks)	
i)	Explain the term habitat fragmentation, how it differs from habitat loss	and habitat	
	degradation	(4 marks)	

SECTION B

QUESTION TWO (20 MARKS)

Discuss the in situ and ex situ conservation approaches giving examples in each case

QUESTION THREE (20 MARKS)

Discuss the:

a)	Major drivers of biodiversity loss and decline	(10 marks)
b)	Responses with a primary goal of conservation of biodiversity	(10 marks)

QUESTION FOUR (20 MARKS)

Discuss the implications of valuing the biodiversity resources.

QUESTION FIVE (20 MARKS)

Discuss the stages of systematic conservation of biodiversity.