



SCHOOL OF BIO SCIENCES AND TECHNOLOGY

FALL-2025

CAT 2 EXAMINATION

Programme Name & Branch : M.Sc. Integrated Biotechnology
Course Name : Biodiversity and Conservation Biology
Course Code : TBIT403L
SLOT : D1+TD1
Faculty Name(s) : Dr.J. Godwin Christopher
Class Number(s) : VL2025260101081

Duration: 90 min.

Max. Marks: 50

General instruction(s): 'Draw neat diagram wherever necessary

ANSWER ALL THE QUESTIONS

10x5=50 MARKS

Q. No.	Question	Marks	Course Outcome	Bloom's Taxonomy
1.	India is recognized as one of the world's 17 megadiverse countries, with a remarkable richness of flora and fauna. Many of the world's known species are endemic to India. Explain the factors that contribute to India's biodiversity richness and endemism?	10	CO4	BL4
2.	Pollution is a major environmental issue causing adverse effects on living organisms and ecosystems. Explain the different types and sources of pollution; Support your answer with suitable examples and suggest measures to control pollution?	10	CO5	BL3
3.	Over-exploitation of natural resources beyond their capacity to regenerate has led to ecosystem degradation and a drastic reduction in biodiversity. Explain how activities such as overfishing, deforestation, overgrazing, mining, and excessive groundwater extraction contribute to this crisis and suggest sustainable management strategies to ensure the long-term conservation of natural resources and biodiversity.	10	CO5	BL3
4.	Fragmentation is a specific form of habitat destruction. Explain how fragmentation impacts species survival, gene flow, migration, and ecosystem stability?	10	CO6	BL2
5.	Agricultural crops once had numerous traditional varieties, but in the present scenario only a few high-yielding or commercially important varieties are being cultivated. Explain how this shift has led to the loss of agricultural biodiversity?	10	CO6	BL4

***** BEST WISHES *****