QP CODE: D2BZL2401	**(Pages: 2)**	**Reg. No**	**: .....**
		Name	**: .....**

SECOND SEMESTER FYUGP EXAMINATION, APRIL 2025

MAJOR COURSE

ZOO2CJ102 : Environmental Biology & Animal Behaviour

(Credits: 4)

Time: 2 Hours **Maximum Marks: 70**

Section A

Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)

1.	Write notes on secondary productivity of an ecosystem.	BL1	CO1, CO6
2.	Explain the role of microorganisms in decomposition.	BL2	CO1, CO6
3.	Write notes on alpha beta and gamma diversity.	BL1	CO2
4.	Discuss the major adaptive feature of flora and fauna in a desert ecosystem.	BL2	CO6
5.	Justify why biodiversity levels vary between different biomes.	BL3	CO6
6.	What is population growth? Reperesent the population growth curve of fruit fly population in a cup of curd as a medium.	BL3	CO2
7.	Comment on the e-waste (Management) Rules 2016.	BL1	CO2
8.	Differentiate between taxis and kinesis with examples.	BL1	CO3
9.	What is the role of the queen in a termite colony?	BL1	CO4
10.	What are wetlands? How are they important to us?	BL2	CO6

Section B

Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)

11.	Discuss ecology as an inter disciplinary science.	BL2	CO1
12.	Briefly discuss trophic levels, food chains and food webs of an ecosystem. Comment on their importance.	BL2	CO1
13.	Write notes on biosphere reserves.	BL1	CO2

(PTO)

14.	Discuss the extinction of speceis and its relevance.	BL2	CO2
15.	What are 'r" and 'K' selected population? Elaborate the features of each.	BL2	CO2
16.	Define biotic community. Briefly describe its characteristic features.	BL3	CO2
17.	Explain conditioned reflex with Pavlov's experiment.	BL1	CO3
18.	Write a short note on the history and scope of ethology.	BL1	CO3
	Section C		
	Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)		
19.	Discuss the laws of thermodynamics. Elaborate how an an ecosystem obeys laws of thermodynamics by discussing the energy transfers and transformations in an ecosystem.	BL2	CO1
20.	Write a detailed note on different modes of animal communication with examples.	BL1	CO3
	CO : Course Outcome		
	BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)		