

QP CODE: D2BZL2501		(Pages: 2)		Reg. No :	
				Name :	
SECOND SEMESTER FYUGP EXAMINATION, APRIL 2026					
(Regular/Improvement/Supplementary)					
Discipline Specific Core (DSC) Courses - Major					
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.	Mention the major subdivisions of ecology.	BL1	CO1		
2.	What are food chains? How does it differ from a food web?	BL2	CO1, CO6		
3.	What is in-situ conservation? Give examples.	BL1	CO2		
4.	Write down the features of a lentic ecosystem. Give two examples.	BL2	CO6		
5.	What is biodiversity? How could you measure the variation of biodiversity between two ecosystems?	BL3	CO2		
6.	Comment on National Water Policy, 2002.	BL1	CO2		
7.	Give an account on population fluctuations and their significance.	BL1	CO2		
8.	What is kinesis? Give an example.	BL1	CO3		
9.	Define ethology. Name two key figures in the development of ethology.	BL1	CO3		
10.	Discuss the importance of rangeland ecosystems.	BL2	CO6		
Section B					
Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)					
11.	Write a comparative description of the process of atmospheric nitrogen fixation with biological nitrogen fixation.	BL3	CO1		
12.	Compare and contrast the single channel and Y shaped energy flow models.	BL2	CO1, CO6		
13.	Comment on the IUCN categorisation of organisms.	BL1	CO2		
14.	Differentiate between tundra and taiga biomes.	BL2	CO6		
15.	What is population fluctuation? Discuss the common types of population fluctuations in nature.	BL2	CO2		
(PTO)					

16.	Discuss the nature of interactions between populations shapes up the community.	BL2	CO2
17.	What is trial-and-error learning?	BL1	CO3
18.	Discuss the advantages and limitations of different types of animal communication.	BL2	CO3

Section C

Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)

19.	Describe in detail the carbon cycle with suitable illustrations.	BL1	CO1
20.	How does cooperative behavior contribute to the survival of termite colonies and elephant herds?	BL1	CO4

CO : Course Outcome

BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)