FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2024 MINOR

ZOO1MN101 FOUNDATIONS OF ENVIRONMENTAL BIOLOGY & ANIMAL BEHAVIOUR

Time: 2 Hrs Maximum Marks: 70

BL : Bloom's Taxonomy Level (1 to 6) CO : Course Outcome

		Ceiling Marks: 24			
No.	Answer all questions. Each carries 3 marks.	M	DI	CO	
1.	Question Evaluate the importance of decomposition in maintaining ecosystem balance.	3	BL 5	CO1	
2.	Discuss the need for conserving wetland ecosystem.	3	3	CO1	
3.	Create a comparative chart showing the differences of lentic & lotic ecosystems.	3	6	CO1	
4.	Differentiate between crude density & ecological density of a population with a	3	5	CO2	
7.	suitable example.		3		
5.	How would you apply the principles of the National Water Policy to address water scarcity in a drought-prone region?	3	3	CO2	
6.	Identify the strengths and limitations of the National Environmental Policy, 2006.	3	5	CO2	
7.	Comment on Telotaxis with suitable example	3	1	CO3	
8.	Differentiate between tonic reflex and phasic reflex	3	2	CO3	
9.	What are the different castes of termites?	3	1	CO4	
10.	Write an account on advantages and disadvantages of being Social animal	3	2	CO4	
	Section B Ceiling Marks:				
	Answer all questions. Each question carries 6 marks.				
No.	Question	M	BL	CO	
11.	Differentiate between a grazing food chain & detritus food by giving suitable examples.	6	3	CO1	
12.	Evaluate the importance of the second law of thermodynamics (entropy) in understanding energy losses in an ecosystem. How does this affect ecosystem productivity?	6	5	CO1	
13.	Compare and contrast the characteristics of tundra & taiga biome in terms of climate, vegetation, and animal adaptations.	6	4	CO1	
14.	Using examples, describe how invasive species have threatened native biodiversity in specific ecosystems.	6	3	CO2	
15.	Explain the differences between in situ and ex situ conservation strategies with relevant examples.	6	5	CO2	
16.	Assess the impact of herbivory on biodiversity in a community, considering both positive and negative aspects.	6	5	CO2	
17.	What are the innate behaviour? Explain with examples	6	1	CO3	
18.	Write short notes on social organization	6	1	CO4	
Section C Answer any 1 question. Each carries 10 marks. (1x10=10 marks)					
No.	Question	M	BL	CO	
19.	What is biogeochemical cycle? Differentiate a sedimentary cycle with gaseous cycle with an example.	10	4	CO1	
20.	Write an essay on population growth. Discuss r & k selected population and the growth curves depicted by them.	10	2	CO2	