

Reg. No.:



Name:

University of Kerala

U9116

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

ZOOLOGY

UK2DSCZOO102 - Wildlife Ecology

Academic Level: 100-199

Time: 2 Hours(120 Mins)

Max. Marks: 56

**Part A.6 Marks:Time 5 Minutes.(Cognitive Level :Remember(RE)/Understand(UN)) Objective Type.1 mark each,
Answer all questions**

Qn No.	Question	CL	CO
1	Biotic potential refers to: Options : A)a) The maximum number of individuals an environment can support at any given time. B) b) The ability of a population to reproduce under optimal environmental conditions C)c) The capacity of an ecosystem to recover from disturbance. D)d) The rate at which resources are consumed by a population	RE	1
2	Musth is a phenomenon observed in: Options : A)A) Male elephants B)B) Male lions C)C) Male chimpanzees D)D) Male gorillas	RE	2
3	Identify a characteristic of a keystone species. Options : A) It has a small population size B)It has a disproportionately large impact on its ecosystem C) It is always a predator D) It is found only in tropical regions	UN	2
4	Some factors that influence habitat selection by wildlife species? Options : A) Food availability, water availability, and shelter B)Climate, topography, and soil type C) Predation risk, competition, and disease D) All of the above	UN	1
5	In animal social structures, what does the term "dominance hierarchy" refer to? Options : A)A system where individuals compete for food B)A ranking system that determines access to resources, mates, and territory	UN	2

Qn No.	Question	CL	CO
	C)A cooperative structure that minimizes aggression D)A random distribution of power and resources among individuals		
6	Habitat destruction is harmful to wildlife because? Options : A)It increases migration B)It leads to loss of living space and food sources C)It reduces forest area but benefits animals D)It helps in conserving species	UN	1

Part B.10 Marks.Time:20 Minutes (Cognitive Level:Understand(UN)/Apply(AP))Two-three sentences.2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Differentiate between habitat and niche.	UN	1
8	Describe climate change affect animal migration patterns?	UN	1
9	If a fish population is declining due to poor mating success, how could pheromones be applied to improve reproduction?	AP	2
10	If you are a veterinarian advising farmers, how would you help them prevent the spread of common zoonotic diseases like brucellosis and rabies on their farms?	AP	3
11	A hilly region under the Gadgil Commission's eco-sensitive zone faces illegal mining, what steps would you take to enforce regulations?	AP	2

Part C.16 Marks.Time:35 Minutes.(Cognitive Level :Apply(AP)/Analyse(AN))Short Answer.4 marks each, Answer all 4 questions,choosing among options * within each question

Qn No.	Question	CL	CO
12	A) Explain the impact of Cane toad on native wildlife. OR B) Identify the impacts created by the common zoonotic diseases on wildlife.	AP	2, 2
13	A) Explain how dominance hierarchy benefits social animals. Give suitable examples. OR B) How do pheromones help in animal communication? Explain with examples.	AP	2, 2
14	A) Examine the role of social behaviour in wildlife survival. OR B) Should human activities be more strictly regulated to reduce anthropogenic threats? Comment on	AN	3, 3
15	A) Analyse the role played by International Conventions and Treaties in the wildlife conservation. OR B) Analyze the factors contributing to biodiversity loss in protected areas and suggest mitigation strategies.	AN	3, 3

Part D.24 Marks.Time: 60 Minutes.(Cognitive Level :Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer 6 Marks each.Answer all 4 questions choosing among options * within each question

Qn No.	Question	CL	CO
16	A) Examine the importance of protecting buffer zones in wildlife conservation OR B) Using any four in situ conservation areas as reference, evaluate how these strategies contribute to the long-term sustainability of biodiversity.	AN	3, 4
17	A) How do ecosystem diversity and species diversity influence each other OR B) Assess the impact of population dynamics (birth rate, death rate, biotic potential) on wildlife conservation strategies.	EV	1, 4
18	A) Evaluate the role of male coalitions in protecting the pride of lion. Do they contribute more to pride stability or create more conflicts? OR B) Evaluate the role of chemical signaling in wildlife communication.	EV	4, 4
19	A) Create an account on the Mourning behaviour of Elephants. OR B) Develop an eco-friendly infrastructure plan that accommodates both urban growth and wildlife conservation	CR	5, 5