

Reg. No.:



Name:

University of Kerala

Y7709

Fourth Semester FYUGP Degree Examination, May 2026

Value Addition Courses

BIOCHEMISTRY

UK4VACBCH202 - Ecology and environmental studies

Academic Level: 200-299

2024 Admission

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions

Qn No.	Question	CL	CO
1	Discuss any two roles of child welfare programmes in sustainable development.	RE	4
2	Discuss any two scopes of environmental studies in solving local and global environmental problems.	RE	1
3	Discuss genetic diversity.	UN	3
4	List the main causes of noise pollution in urban areas.	UN	2
5	Cite the main concerns in the resettlement and rehabilitation of project-affected people.	UN	4
6	Outline two consequences of biodiversity loss.	UN	3

Part B. 8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Explain the concept of an ecosystem and its basic components.	UN	1
8	Describe the basic features and impacts of any one disaster (flood/earthquake/cyclone/landslide).	UN	2
9	Interpret the importance of human rights in society.	AP	4
10	Apply the idea of water conservation to suggest one practical method for urban households.	AP	4

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Apply your knowledge to suggest a sustainable plan to control water pollution in a river that receives domestic and industrial waste, including treatment, monitoring, and public participation. OR B) After a nuclear accident, soil and water are contaminated. Explain the health risks and suggest safety measures for nuclear hazards.	AP	2, 2
12	A)	AN	4, 3

Qn No.	Question	CL	CO
	Examine the social and economic problems faced during resettlement and rehabilitation. OR B) Analyse the strengths and limitations of in-situ and ex-situ conservation strategies in protecting endangered species.		
13	A) Evaluate the importance of biodiversity and justify its value for ecosystems and human well-being. OR B) Evaluate the challenges faced in implementing women and child welfare schemes.	EV	3, 4
14	A) Draw a simple diagram of food chain, food web, and ecological pyramid (forest ecosystem) and explain how they show ecosystem stability. OR B) Make a plan to compare desert and aquatic ecosystems based on structure, function and adaptive features. Explain how this framework can be used for ecosystem conservation planning.	CR	1, 1