

Reg. No.:



Y7840

Name:

University of Kerala

Fourth Semester FYUGP Degree Examination, May 2026

Value Addition Courses

HISTORY

UK4VACHIS201 - Ecology and Sustainability

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	Name the primary energy transfer pathway in an ecosystem.	RE	3
2	Scientific study of interactions between living organisms and their physical environment is called.....	RE	1
3	Identify the year in which process of social forestry was officially initiated.	UN	4
4	Expand DDT	UN	3
5	Identify the organisms that break down waste.	UN	1
6	'Land is a community not a commodity' is said by	UN	2

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 how predation occurs in an ecosystem	UN	3
8	Describe the effects of ozone depletion	UN	4
9	Interpret the term Biodiversity	AP	4
10	Apply the concept of a food web to explain ecosystem stability.	AP	3

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)	AP	1, 1

Qn No.	Question	CL	CO
	Apply the concept of niche for explaining its role in ecology. OR B) Explain how human activities affect habitats in ecology and suggest solutions to protect them.		
12	A) Analyze the way in which Charles Darwin's ideas and theory changed scientific thinking OR B) Compare the ecological ideas of Rachel Carson and Aldo Leopold.	AN	2, 2
13	A) Explain 'think globally and act locally' using Kallan Pokkudan model of ecological conservation in Kerala OR B) Evaluate the role of education, activism and grassroot level movements in preserving ecological sustainability	EV	5, 5
14	A) Develop a sustainable lifestyle model to reduce the Greenhouse effect. OR B) Suggest creative measures to formulate a campaign to educate people about Global warming and its impacts.	CR	4, 4