

Reg. No.:



Name:

University of Kerala

Y7745

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	The exponent of the Theory of Evolution by Natural Selection.	RE	2
2	World Environment day is observed on	RE	1
3	Identify the main heat-trapping gas	UN	4
4	The process by which plants make food using sunlight ---	UN	3
5	Author of <i>Silent Spring</i>	UN	2
6	Write the name of a decomposer in a nutrient cycling	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	Define the term population.	UN	1
8	Explain the ecological thoughts of Aldo Leopold	UN	2
9	Explain Greenhouse effect	AP	3
10	Distinguish between energy flow and nutrient cycling	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) Demonstrate the importance of biodiversity in maintaining ecosystem stability. OR B) Apply ecosystem concepts to explain the characteristics of different biomes.	AP	1, 1
12	A) Analyze the effect of climate change on food webs in terrestrial and aquatic ecosystems. OR B) Analyse the interdependence of both biotic and abiotic factors in an ecosystem with example	AN	3, 3
13	A) Assess the contribution of Kallan Pokkudan to mangrove conservation in the coastal areas of Kerala. OR B) Evaluate the role of public awareness and education for environmental protection	EV	5, 5
14	A) Analyze the harmful effects of spraying pesticides in tea plantations. How far these chemicals affect more on human beings than on pests. OR B) Prepare a sustainable flow chart addressing a comprehensive food web.	CR	4, 4