

Reg. No.:



Y7809

Name:

University of Kerala

Fourth Semester FYUGP Degree Examination, May 2026

Value Addition Courses

BOTANY

UK4VACBOT202 - Biodegradable waste management.

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	16.Identify one biodegradable waste generated from paper products	RE	1
2	Name two microorganisms involved in biodegradation.	RE	1
3	How do bioplastics help reduce pollution?	UN	3
4	How do inconsistent regulations affect waste management?	UN	2
5	23.How does anaerobic digestion work?	UN	2
6	9.How do biodegradable wastes support sustainability?	UN	1

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	2.Describe the problem of odour generation in biodegradable waste.	UN	2
8	17.Describe the use of fungi-based materials in packaging.	UN	3
9	How can biodegradable waste be used to produce biogas?	AP	2
10	How do you manage biodegradable waste at home effectively?	AP	1

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	3, 3

Qn No.	Question	CL	CO
	4. Explain the use of mobile applications in monitoring waste generation and disposal. OR B) 6. Present a workable idea to use technological innovations for reducing household wastes.		
12	A) 3. Break down the factors contributing to inefficient waste disposal practices. OR B) 12. Break down the interconnection between waste generation, disposal practices, and environmental impact.	AN	2, 2
13	A) 12. Debate the effectiveness of investing in advanced waste management technologies. OR B) 20. Evaluate the overall impact of technological advancements on biodegradable wastes management.	EV	3, 3
14	A) 7. Initiate a plan to promote vermicomposting in rural households. OR B) 1. Frame a simple plan to manage biodegradable wastes in a small household using available resources.	CR	2, 2