

Reg. No.:



Name:

University of Kerala

U9285

Second Semester FYUGP Degree Examination, April 2025

Multi-Disciplinary course

CHEMISTRY

UK2MDCCHE100 - CHEMISTRY IN EVERYDAY LIFE

Academic Level: 100-199

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 a common example of a fibrous protein and describe its role in the body.	RE	3
2	Name a pigment used in lipstick.	RE	1
3	Name one natural alternative for herbal cosmetics.	UN	1
4	Drugs obtained from micro-organisms are called -----	UN	4
5	Synthetic fertilizers are chemically manufactured substances that provide specific to plants.	UN	2
6	Indicate the zwitter ion formation of amino acids.	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 characteristics of a good dye	UN	4
8	Give any two examples of a bio pesticide.	UN	2
9	Discuss the key ingredients used in the manufacturing of toothpaste and their functions in maintaining oral hygiene?	AP	1
10	Explain essential and non essential aminoacids.	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) Develop an awareness campaign to educate people on the environmental impact of synthetic detergents. OR B) How would you apply your knowledge of herbal ingredients to illustrate the formulation and benefits of various herbal cosmetics?	AP	1, 1
12	A) Classify carbohydrates based on their structure and complexity. Explain each type with suitable examples and describe their biological importance. OR B) Draw a chart to explain the functions of various vitamins and their sources.	AN	3, 3
13	A)	EV	2, 2

Qn No.	Question	CL	CO
	Analyze the excessive use of fertilizers in modern agriculture and its consequences on soil degradation, water pollution and biodiversity loss. Suggest effective mitigation strategies. OR B) Discriminate between natural and synthetic pesticides in terms of their environmental effects and effectiveness		
14	A) Create a design to study the role of various types of drugs based on their application. OR B) Estimate the health benefits of using natural dyes as biological staining agents.	CR	4, 4