

Reg. No.:



Name:

University of Kerala

Y7813

Fourth Semester FYUGP Degree Examination, May 2026

Value Addition Courses

CHEMISTRY

UK4VACCHE201 - SCIENTIFIC COMMUNICATION & ETHICS

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	Which of the following is a key feature of an oral presentation? Options : A)a) Clear voice B)b) Silent reading C)c) Written notes only D)d) No audience interaction	RE	4
2	Name any one search engine for scientific literature.	RE	2
3	Make a comparison of a research paper and a scientific report.	UN	1
4	Distinguish a patentable idea from a non-patentable one.	UN	3
5	A list of sources at the end of a research paper that associates references with the study is called the -----.	UN	4
6	Define the term 'Public Understanding of Science'.	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	Explain the role of Internet discussion groups in scientific communication.	UN	2
8	Describe the impact of plagiarism on academic integrity.	UN	3
9	Choose examples of any two written sources of science communication, focusing on the relevance of each.	AP	1
10	Apply two ethical guidelines while preparing a scientific report on the effects of chemical fertilisers on soil health.	AP	4

Qn No.	Question	CL	CO

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) Prepare a questionnaire for the public on how a particular pandemic was handled by the system. OR B) Identify a pressing global scientific issue and apply your knowledge of scientific communication tools to design a step-by-step pathway for awareness, dissemination, and action.	AP	1, 1
12	A) Compare the features, advantages, and limitations of Google Scholar, Scopus, and ScienceDirect as digital research tools. OR B) Compare the research performance of two researchers using the following citation data. Researcher A has published papers with citation counts of 30, 25, 12, 10, 8, 5, 3, and 1. Researcher B has published papers with citation counts of 22, 18, 15, 11, 9, 7, 6, and 2. Calculate the h-index and i10-index for both researchers and analyse whose research performance is stronger based on these metrics.	AN	2, 2
13	A) Critically examine plagiarism as a barrier to academic honesty and research integrity. OR B) Determine the role of patent protection in industrial growth.	EV	3, 3
14	A) Devise strategies to avoid plagiarism while writing scientific papers. OR B) Prepare a flow chart on how research groups can create an informed community using various methods of presentations.	CR	4, 4