

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	<p>A) Prepare a questionnaire for the public on how a particular pandemic was handled by the system. OR</p> <p>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.</p>	AP	1, 1
12	<p>A) Compare the features, advantages, and limitations of Google Scholar, Scopus, and ScienceDirect as digital research tools.</p> <p>OR</p> <p>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.</p>	AN	2, 2
13	<p>A) Critically examine plagiarism as a barrier to academic honesty and research integrity.</p> <p>OR</p> <p>B) Determine the role of patent protection in industrial growth.</p>	EV	3, 3
14	<p>A) Devise strategies to avoid plagiarism while writing scientific papers.</p> <p>OR</p> <p>B) Prepare a flow chart on how research groups can create an informed community using various methods of presentations.</p>	CR	4, 4