

Reg. No.:



Y7718

Name:

University of Kerala

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	Cite the function of scientific magazines.	RE	1
2	Cite any one use of ChemSpider.	RE	2
3	State the full form of WAME.	UN	3
4	Distinguish between plagiarism and proper citation.	UN	4
5	The _____ index gives more weight to highly cited papers.	UN	2
6	Indicate a feature of knowledge-based economy.	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	Distinguish between scientific knowledge and scientific temper.	UN	1
8	Articulate the importance of reporting a project work in scientific study.	UN	4
9	A researcher has 5 papers with the following citation counts: 25, 14, 10, 8, and 4. Calculate the i10-index of the researcher.	AP	2
10	Demonstrate two steps you would follow to ensure reproducibility in a laboratory experiment of your choice (example: volumetric titration).	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)	AP	1, 1

Qn No.	Question	CL	CO
	Select key developments in history and apply them to illustrate how and why science communication became increasingly vital to the general public worldwide. OR B) Illustrate a comparative study on the science publications in India and foreign countries.		
12	A) Analyse the impact of E-books and digital archives on the efficiency of scientific learning and long-term knowledge preservation. OR B) Appraise the effectiveness of TOC alerts and Hot articles features in keeping researchers updated with current developments.	AN	2, 2
13	A) Critically appraise the legal and economic importance of patent grants. OR B) Is it wrong to copy content from a journal article and use it in your project? Evaluate.	EV	3, 3
14	A) Compose a model scientific paper including introduction, methods, results, and conclusions for a selected topic. OR B) Estimate the time and resources required to prepare and present a scientific project report, keeping in mind the different stages involved from start to finish.	CR	4, 4