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G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



PG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: M.Sc., MATHEMATICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
III	PART - III	CORE ELECTIVE - 5	P23MA3E5A	RESEARCH METHODOLOGY

Date & Session : 12.11.2025/AN

Time : 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer <u>ALL</u> Questions.
CO1	K1	1.	Which one of the following is not true the thesis shall. a) not include figures and tables b) not exceed 1,00,000 words c) be an integrated whole and present a account of his /her investigation d) consist of the candidates own coherence argument
CO1	K2	2.	Research etiquette is. a) offering to share the final results of your research with contributors b) copying others results c) publishing the result in a journal d) independent research
CO2	K1	3.	Writing a research proposal improve _____. a) Technical skills b) management skills c) Leadership skills d) General research and writing skills
CO2	K2	4.	Most proposal are between_____ pages in length. a) Ten and fifteen b) Three and ten c) Ten and six d) five and ten
CO3	K1	5.	The first page of the research report is_____. a) Appendix b) Bibliography c) Index d) Title page
CO3	K2	6.	An abstract is a _____. a) quotations b) Synopsis c) Bibliography d) Glossary
CO4	K1	7.	A complete list the references to the works you have consulted during the course of your research is known as. a) Thesis b) Abstract c) Bibliography d) Index
CO4	K2	8.	Suggestions for future research must be included in. a) Introduction b) Acknowledgement c) Conclusions d) Bibliography
CO5	K1	9.	A halfway house between a comma, and a full stop is. a) a bracket b) a hyper c) colon d) semicolon
CO5	K2	10.	The comma is usually omitted before the last item in a list, where it is replaced by. a) hence b) but c) or d) and

Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K2	11a.	Explain the basic requirements of a research degree. (OR)
CO1	K2	11b.	Explain why it is important for a research supervisor to have expertise in the area of your research?
CO2	K2	12a.	Explain why developing professional vocabulary is important in research? (OR)
CO2	K2	12b.	What are disciplinary differences in research?
CO3	K3	13a.	Explain the purpose of each main component in a research project. (OR)
CO3	K3	13b.	Explain the structure and purpose of the table of contents.
CO4	K3	14a.	How would you write an effective conclusion for your research paper? (OR)
CO4	K3	14b.	How would you choose and apply different styles of presenting a research paper?
CO5	K4	15a.	Analyze the process of publishing a research article in an academic journal. (OR)
CO5	K4	15b.	When should semicolon be used in a research paper?

Course Outcome	Bloom's K-level	Q. No	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K4	16a.	Analyze the key differences between a dissertation and a thesis. (OR)
CO1	K4	16b.	Explain in detail the criteria for choosing a research topic.
CO2	K5	17a.	Discuss the essential elements of a research proposal and justify why each component is important for the success of a research project. (OR)
CO2	K5	17b.	Discuss the importance of ethical considerations in research.
CO3	K5	18a.	Analyze the importance of acknowledgements and abstracts in a research project. (OR)
CO3	K5	18b.	Design a structured literature review for a research project.
CO4	K5	19a.	Distinguish between Quantitative vs qualitative methodology. (OR)
CO4	K5	19b.	Explain the importance and content of the conclusion, bibliography, and appendices in a research report.
CO5	K6	20a.	Evaluate the differences between presenting a research paper at a conference and publishing it in a journal. (OR)
CO5	K6	20b.	Prepare the importance points of when can a comma be used in a research paper?