



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:VII
Class:FINAL	Program:B.Tech
Branch Code:ETC	Pattern:2022
Name of Course:Research Methodology	Course Code:ETC224007
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 02 pages.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1a) Define literature review. What is its role in research (6) CO1

Question No. 2

- 2a) Explain the meaning Research design. What is significance of a Research design (6) CO2

Question No. 3

- 3a) Explain following terms (8) CO3

1. Sampling frame
2. Sampling error
3. Sampling design

OR

- 3b) What is Non- Probability Sampling. Explain any two types of Non-Probability sampling techniques. (8) CO3

- 3c) Explain sampling and sampling methods also state characteristics of good sample (8) CO3

OR

- 3d) Define primary data and secondary data. Give one example of each. (8) CO3

Question No. 4

- 4a) What is a research report, and why is it important in academic writing? (8) CO4

OR

- 4b) What is the purpose of an abstract in research writing? (8) CO4

- 4c) Explain the importance of the literature review section in a journal article. (8) CO4

OR

4d) Explain the structure of an effective abstract. (8) CO4

Question No. 5

5a) Define plagiarism in your own words. Why is it considered a serious ethical issue in academic and research writing? (8) CO5

OR

5b) What are the major ethical concerns in collaborative research work? How can plagiarism and authorship issues arise in joint publications? (8) CO5

5c) List and explain at least five essential qualities of a good researcher. Why are these qualities important for producing reliable research outcomes? (8) CO5

OR

5d) Explain why paraphrasing without proper citation still falls under plagiarism. How should paraphrased content be correctly acknowledged? (8) CO5

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