



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

	InSem Examination-IWinter 2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester:I	
	Name of Programme:M.Tech	Pattern:2022	
	Name of Course:Research Methodology and IPR	Course Code:ETC225105	
	Max. Marks:30	Duration:1	

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 page(s).
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

Question No. 1 Attempt following Question

- 1a) How do you define a research problem? Give three examples to illustrate your answer. (7)

OR

- 1b) What is a research plan? What are generic elements to be included in Research plan. (7)

- 1c) Describe the different steps involved in research process ? (8)

OR

- 1d) What is the significance of following in literature survey?

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|--------------------|-------------------|-----|
| i) Shodhganga | ii) Bibliometrics | (8) |
| iii) Research Gate | iv) Paraphrasing | |

Question No. 2 Attempt following Question

2a) Distinguish the qualitative and quantitative research Method. (7)

OR

2b) Define Multi-dimensional Scaling (MDS). Differentiate metric & nonmetric approach of MDS with an example. (7)

2c) Explain Various data collection methods used in research (8)

OR

2d) Explain and illustrate the procedure of selecting a random sample (8)