

Total number of printed pages: 02 Programme (PG)/1st Semester/PFET 101

2023

Research Methodology and IPR

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answers any five (05) questions

1.	a)	What is meant by Research Problem Formulation? How can you identify the Research Problem	10
	b)	Write a brief note on Types of Research? Explain experimental Research and Descriptive Research	10
2.		Explain the difference between qualitative and quantitative research methodologies. Give specific examples of research questions that would be best addressed using each approach, and discuss the strengths and limitations of each	20
3.	a)	Describe the steps involved in conducting a systematic literature review. Discuss the benefits of using this methodology in research, and provide an example of a research topic where a systematic review would be particularly valuable.	10
	b)	Discuss the role of the problem statement in a research proposal. Explain why formulating a clear and focused problem statement is crucial for guiding the entire research process. Provide examples of effective problem statements.	10
4.	a)	Discuss different Characteristics of Research.	
	b)	Analyze and explain the significance of research in various fields such as science, business, healthcare, and social sciences. Discuss how research contributes to knowledge advancement, problem-solving, and decision-making	
5.	a)	Explain the purpose and significance of the patent system	10
	b)	Outline the key steps involved in the patent application process. Discuss the requirements for patentability and the role of patent examiners. Explain the significance of a thorough patent search and the potential	10

		challenges applicants may face during the application process.	
6.	a)	Provide a comprehensive overview of Intellectual Property Rights (IPR) in India.	10
	b)	Discuss Challenges and Contemporary Issues in IPR.	3+7=10
7.	Write short notes on the following (any four)		4X5=20
	a)	Trademark	
	b)	Copyright	
	c)	Industrial Design	
	d)	Research design	
	e)	Ethical consideration in research	
	f)	Patent	

