

U.S.N.

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

January / February 2025 Semester End Main Examinations**Programme: B.E.****Semester: V****Branch: Industrial Engineering and Management****Duration: 3 hrs.****Course Code: 23IM5AERMI****Max Marks: 100****Course: Research Methodology And Intellectual Property Rights**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.			UNIT - I	CO	PO	Marks
	1	a)	What is Research? What are the objectives of conducting Research? Distinguish between 'Research Methods' versus 'Research Methodology'	CO1	PO1	10
		b)	Differentiate the following with an example: i. Basic Research and Applied Research ii. Descriptive Research and Causal Research	CO1	PO2	10
			OR			
	2	a)	Outline the research process and illustrate it with a flow chart.	CO1	PO1	10
		b)	"The objective of research problem should be clearly defined; otherwise the data collection becomes meaningless"- Evaluate this statement with suitable examples	CO1	PO2	10
			UNIT - II			
	3	a)	Discuss the criteria for selecting a research problem and describe the characteristics of a good research topic.	CO1	PO1	10
		b)	What are the key methods for collecting quantitative data, and how do they ensure accuracy and reliability in research?	CO1	PO2	10
			OR			
	4	a)	In the context of the famous saying, 'A problem clearly expressed is a problem half solved,' justify the importance of clearly defining a research problem in research methodology and explain how a well-defined research problem contributes to the overall success of a study. Provide examples to support your answer.	CO1	PO2	10
		b)	What are the key benefits of conducting a literature review, and what factors should you consider when selecting sources for your literature review?	CO2	PO2	10

		UNIT - III			
5	a)	What are the key elements of an effective poster presentation, and how do they contribute to engaging and informing the audience?	CO2	PO2	10
	b)	A researcher copied sections from a published article into his/her thesis without proper citation. Identify the type of plagiarism and suggest steps to address this issue ethically.	CO2	PO8	10
		OR			
6	a)	What is the objective of a research proposal? How can a well-written research proposal contribute to securing funding or approval for a research project? Discuss.	CO2	PO2	10
	b)	You are planning to submit an article to a journal, but you are unsure about its quality. What steps would you take to verify its credibility and determine if it is a good journal for your research?	CO2	PO2	10
		UNIT - IV			
7	a)	What is the meaning of the patent? What is the origin and development of patent in India? What are the 3 types of patents?	CO3	PO4	10
	b)	Outline the stepwise procedure for obtaining a patent and explain the importance of each step in the process.	CO3	PO4	10
		OR			
8	a)	Explain the rights of a patent owner. Also analyze the concept of patent infringement and the legal remedies available to the patent owner.	CO4	PO8	10
	b)	What are non-patentable inventions, and why are certain inventions excluded from patent protection? Provide examples to illustrate your answer.	CO3	PO4	10
		UNIT - V			
9	a)	Define copyright and explain the requirements for obtaining copyright protection. Also, discuss the scope of copyright protection.	CO3	PO4	10
	b)	Define copyright infringement and provide examples of actions that may constitute a violation of copyright laws. Additionally, discuss the strategies that individuals and organizations can adopt to minimize the risk of infringing on copyrighted materials.	CO4	PO8	10
		OR			
10	a)	What is a trademark? What kinds of signs can be registered as trademarks? Discuss with the help of example.	CO3	PO4	10
	b)	What types of trademarks are eligible for registration, and what types are not in Indian context? Provide examples to support your explanation.	CO3	PO4	10
