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Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025

Research Methodology and IPR

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Define the term research and explain the research flow cycle with a relevant diagram.	10	L1	CO1
	b.	What are the key ethical issues related to authorship? Explain any one.	10	L2	CO1
OR					
Q.2	a.	Define Engineering research and list its aims and objectives.	10	L1	CO1
	b.	Write a note on the following research misconduct : i) Plagiarism ii) Other types of research bias.	10	L2	CO1
Module – 2					
Q.3	a.	What are the primary goals of conducting a literature review in academic research?	10	L2	CO2
	b.	Explain various steps involved in critical and creative reading.	10	L2	CO2
OR					
Q.4	a.	How does new and existing knowledge can contribute to the research process? Explain relevant points.	10	L3	CO2
	b.	Explain Knowledge flow through citation.	10	L2	CO2
Module – 3					
Q.5	a.	What inventions are eligible for patenting and which matters are considered non – patentable?	10	L2	CO3
	b.	Explain classes of copyrights.	10	L1	CO3
OR					
Q.6	a.	Define the term patent and what conditions must be met for obtaining patent protection.	10	L2	CO3
	b.	Explain the following major steps involved in the process of patent registration : i) Prior Art search ii) Choice of application to be filed iii) Pre-grant opposition.	10	L2	CO3
Module – 4					
Q.7	a.	Using flow chart, explain the important steps involved in the process of copyrights registration.	10	L2	CO4

	b.	What are the different categories trademarks recognized under Indian law and tabulate the famous trademark types with examples.	10	L3	CO4
OR					
Q.8	a.	What are the roles and functions of the copyright board and copyright society in administering copyright law and regulations?	10	L3	CO4
	b.	Using a flow chart, explain the steps involved in the process of trademarks registration.	10	L2	CO4
Module – 5					
Q.9	a.	Discuss the design registration procedure using a flow chart.	10	L2	CO5
	b.	Define Geographical Indications (GI) with an example. What are the rights granted to GI holders.	10	L2	CO5
OR					
Q.10	a.	Using a flowchart, explain the process of GI registration.	10	L2	CO5
	b.	Explain the classification of Industrial Designs and design registration , trends in India.	10	L2	CO5
