

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
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. Explain the research flow cycle with the help of a neat diagram.	07	L2	CO1
	b.	Interpret the factors that motivate Engineering Research.	07	L2	CO1
	c.	With the help of neat diagram, recall the 3 broad categories of developing and accessing knowledge in research.	06	L1	CO1
OR					
Q.2	a.	What do you mean by Ethics? Recall the importance of practicing ethics in engineering research.	07	L1	CO1
	b.	Write short notes on the following : i) Fabrication ii) Plagiarism	08	L2	CO1
	c.	Explain in brief the 3 ways to credit the Research Contributions.	05	L2	CO1
Module – 2					
Q.3	a.	Explain briefly the goals of conducting literature review in academic research.	10	L2	CO2
	b.	Explain how existing knowledge will act as a foundation for new knowledge.	10	L2	CO2
OR					
Q.4	a.	Define Citation. Mention and explain the types of citations which fail to achieve their goals in benefiting the reader.	10	L2	CO2
	b.	With the help of neat diagram, illustrate how knowledge flows through a citation network.	10	L2	CO2
Module – 3					
Q.5	a.	What is Intellectual Property? Discuss the role of IP in economic and cultural development of the society.	10	L2	CO1
	b.	List the type of inventions which are eligible for patenting and which are not patentable?	10	L1	CO3
1 of 2					

OR

Q.6	a.	Define the term Patent. List and explain the conditions that must be met for obtaining a patent protection.	10	L2	CO3
	b.	With the help of neat diagram, explain the process of patenting an invention.	10	L2	CO3

Module – 4

Q.7	a.	What is Copy Right? Explain the criteria that a work must meet to qualify for Copy Right Protection.	10	L2	CO4
	b.	With the help of flowchart, explain the important steps involved in the process of copy right registration.	10	L2	CO4

OR

Q.8	a.	What is a Trademark? Explain eligibility criterias for trademark and designation of Trademark Symbols.	10	L2	CO4
	b.	With the help of neat flowchart, explain the process of trademark registration.	10	L2	CO4

Module – 5

Q.9	a.	What is an Industrial Design? Explain the procedure for registering an industrial design.	10	L2	CO5
	b.	Explain the classification of Industrial Design.	10	L2	CO5

OR

Q.10	a.	What is GI? Explain the mechanism available for the protection of rights related to GI.	10	L2	CO5
	b.	Discuss the case study of curcuma (turmeric) patent.	10	L2	CO5
