

*Answer any Five Questions One Question for One UNIT
ALL the Question Carry Equal Marks*

UNIT-I		Marks	CO	BL
1.a)	What are the criteria and characteristics of a good research problem? Briefly explain any three characteristics.	8M	C01	B3
b)	Identify common errors in selecting a research problem. How can these errors be avoided?	7M	C01	B3
OR				
2.a)	Explain the scope and objectives of a research problem. How do they influence the research process?	8M	C01	B3
b)	Discuss the different approaches for investigating solutions to a research problem. Provide examples.	7M	C01	B3
UNIT-II		Marks	CO	BL
3.a)	What are research ethics? Mention any three ethical principles that researchers must follow.	8M	C02	B4
b)	What are the key elements of developing a research proposal? Briefly explain any two of them.	7M	C02	B3
OR				
4.a)	Define effective technical writing. What are three key characteristics of good technical writing?	8M	C02	B3
b)	Briefly explain the steps involved in writing a research report. Why is a well-structured report important?	7M	C02	B3
UNIT-III		Marks	CO	BL
5.a)	How does the process of patenting contribute to technological development? Provide two examples.	8M	C03	B4
b)	Discuss the importance of international cooperation in intellectual property rights. Provide two examples of cooperative frameworks.	7M	C03	B3
OR				
6.a)	What are the steps involved in the process of patenting a new invention?	8M	C03	B4
b)	What is the Patent Cooperation Treaty (PCT)? How does it help in international patenting?	7M	C03	B3
UNIT-IV		Marks	CO	BL
7.a)	Explain the process of transferring technology through patent licensing. Provide an example.	8M	C04	B2
b)	What are patent information databases? Name any two commonly used databases and their purpose.	7M	C04	B3

OR

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| 8.a) | Why is patent information important for researchers and innovators? Briefly explain. | 8M | C04 | B3 |
| b) | What are geographical indications (GIs)? Provide two examples and their significance. | 7M | C04 | B3 |

UNIT-V

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| 9.a) | Explain the significance of IPR in protecting computer software. Provide two examples of software patents. | 8M | C05 | B4 |
| b) | How can IITs (Indian Institutes of Technology) contribute to innovation and intellectual property creation? | 7M | C05 | B3 |

OR

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|-------|--|----|-----|----|
| 10.a) | What is traditional knowledge (TK), and why is it important to protect it under IPR? Provide an example. | 8M | C05 | B4 |
| b) | Describe a famous case study related to the misuse of traditional knowledge and how it was resolved. | 7M | C05 | B3 |
