

Code No.: R22CC8104PC

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**CMR ENGINEERING COLLEGE: : HYDERABAD  
UGC AUTONOMOUS**

**I-M.TECH-I-Semester End Examinations (Regular) - March- 2024  
RESEARCH METHODOLOGY & IPR  
(VLSI SD, CSE)**

[Time: 3 Hours]

[Max. Marks: 60]

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A**

**(10 Marks)**

1. a) Define data collection. [1M]
- b) How do you define a research problem? [1M]
- c) What is meant by plagiarism? [1M]
- d) What are the steps involved in publishing the paper? [1M]
- e) What is effective technical writing? [1M]
- f) How do you write a research report? [1M]
- g) What do you mean by patents? [1M]
- h) Write a short note on trade and copy right. [1M]
- i) How are patents classified? [1M]
- j) What is the scope of IPR? [1M]

**PART-B**

**(50 Marks)**

2. Empirical research in India in particular creates so many problems for the researchers. [10M]  
State the problems that are usually faced by such researchers.
- OR**
3. Define the main issues which should receive the attention of the researcher in [10M]  
formulating the research problem. Give the suitable examples to elucidate your points.
4. List and explain the various research ethics. [10M]
- OR**
5. Explain the various methods for detecting plagiarism in research methodology. [10M]
6. List and explain the principles of the effective technical writing. [10M]
- OR**
7. What are the steps in report writing in research methodology? Explain. [10M]
8. Explain the concept of Copy rights with help of examples. Are Collective work and [10M]  
Derivative work also copyrightable? Explain.
- OR**
9. Discuss the procedure for the grants of the patents. [10M]
10. Explain the IPR of biological systems. [10M]
- OR**
11. Discuss the new development in IPR. [10M]

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