

Code No.: CC8104PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

I-M.TECH-I-Semester End Examinations (Regular) – April - 2022
RESEARCH METHODOLOGY AND IPR
(Common for CSE, VLSI SD)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 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

(20 Marks)

1. a) What is the quality of research? [2M]
- b) Identify the qualities of a good researcher? [2M]
- c) Examine the basic principles of research ethics. [2M]
- d) How can you check the Plagiarism in research? [2M]
- e) Write three precautions for writing the research report. [2M]
- f) Deduct the purpose of a footnote in technical report writing? [2M]
- g) Distinguish between intellectual property and trademark. [2M]
- h) Identity the importance of trading in India. [2M]
- i) Outline the WIPO Treaties. [2M]
- j) Mention the duties of IP audit? [2M]

PART-B

(50 Marks)

2. a) Classify the errors in selecting a research problem. [5M]
 - b) Develop criteria for the selection of research problem. [5M]
- OR**
3. a) Propose the necessary instrumentations to conduct good research. [5M]
 - b) List out the solutions of the research problem. [5M]
4. a) Explain the principles of ethics in science and engineering research. [5M]
 - b) Summarize the types of Plagiarism. [5M]
- OR**
5. a) Categorize the different approaches of effective literature studies? [5M]
 - b) What are the major issues in conducting research? Explain with an example. [5M]
6. a) Explain in detail about the effective technical writing. [5M]
 - b) List out the steps involved in making the technical presentation. [5M]
- OR**
7. a) Determine the format of the thesis and dissertation. [5M]
 - b) Write about logical analysis of the subject matter in research proposal. [5M]
8. a) Construct an application to register different types of trade marks in PTO and an Indian IPR organization. [5M]
 - b) Discuss the law of copy rights in detail and mention the copyright format. [5M]
- OR**
9. a) Describe how the patent trademark organization controls the monopoly nature of the owner. [5M]
 - b) Distinguish between breakthrough innovation and incremental innovation by quoting with real-time examples. [5M]
10. a) Why the copy rights preferred rather than patents in case of software? [5M]
 - b) Explain the IPR of the biological system in India. [5M]
- OR**
11. a) Examine the main provisions of the Indian Patent Amendment Act-2005 and its importance. [5M]
 - b) Elaborate the patent law treaty with suitable examples. [5M]