Roll No……..….. **Total No. of Printed Pages: 1**
Total No. of Questions: [11]

M. Tech. CSE (Semester – 1st)
RESEARCH METHODOLOGY AND IPR
Subject Code: MRMIP0101
Paper ID: [190203]

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(4 marks each)**

Q1. How do feasibility and relevance influence the selection of a research problem?
Q2. Describe the steps involved in performing a systematic literature review.
Q3. What is copyright, and how does it protect creative works? Provide examples of works that can be copyrighted.
Q4. What are the key requirements for granting a patent under the TRIPS Agreement?

Section – B **(8 marks each)**

Q5. How do exploratory, descriptive, and analytical approaches differ when investigating a research problem?
Q6. Why is it important to maintain ethical standards in research? How can researchers avoid conflicts of interest in their studies?
Q7. What are the common challenges faced during the patenting process? What are the requirements for patent applications in terms of disclosure and claims?
Q8. What are the challenges in protecting traditional knowledge under IPR, and how can these challenges be addressed?

Section – C **(10 marks each)**

Q9. What role do instruments (such as surveys, interviews, or questionnaires) play in collecting data for research problems? Discuss their advantages and limitations.
Q10. Describe the role of the Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement in shaping global IP law.
Q11. Explain the concept of 'compulsory licensing' in patent law and when it can be invoked. Explain the potential impact of emerging technologies, such as artificial intelligence and blockchain, on the future of patent law and IPR systems.