

**Roll No.**

**Total No. of Pages : 01**

**Total No. of Questions : 08**

**M.Tech. (Electrical Engineering) / (Power Systems and Renewable Energy) (Sem.-1)**

## RESEARCH METHODOLOGY AND IPR

**Subject Code : MTRM-101/21**

**M.Code : 91519**

**Date of Examination : 27-01-23**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. What is research and its purpose? Also, elaborate upon the characteristics of a research problem.
2. Discuss the following steps of an effective research :
  - a) Analysis of data
  - b) Hypothesis testing
  - c) Generalization and interpretation.
3. What is plagiarism and which are the available tools/methods to check it?
4. According to research methodology what all are the components of a research report? Also write about the essential for a good report.
5. Elaborate upon the nature of the following intellectual property :
  - a) Patents
  - b) Copyrights
6. Write in detail about the current scenario of “*The international corporation in Intellectual Property*”.
7. In context with the recent developments in the field of information technology discuss “*IPR for Biological systems*”.
8. **Write a note on :**
  - a) Presentation of a research problem and its assessment by a review committee
  - b) Errors in selecting a research problem.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**