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Total No. of Pages : 01

Total No. of Questions : 8

**M.Tech.(CSE Engg.)/ECE (Wireless Communication)/(ECE)/Electrical
(Power System)/(EE)/(Power System) (2018 Batch) (Sem.-1)**

RESEARCH METHODOLOGY AND IPR

Subject Code : MTRM-101-18

Paper ID : [75161]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

- Q1) Define research problem and its sources. Mention the criteria characteristics of a good research problem.
- Q2) a) Why is data collection an important aspect of research process? Distinguish the terms analysis and interpretation of datasets.
- b) Describe the different approaches of conducting an effective literature review. How plagiarism is important in research?
- Q3) Outline key characteristics of technical writing and its contribution in research. Take a case study or sample hypothesis and prepare a template of research proposal.
- Q4) What is patent information? Briefly explain the significance of using the patent information. How does a patent document help in R&D?
- Q5) a) Discuss the steps of patenting and development process in detail.
- b) What is licensing and transfer of technology? Why is it important under IPR?
- Q6) What is sampling in research process? Explain the various factors that should be considered in decision making of a sampling method.
- Q7) Assume a real-world problem, formulate a hypothesis and describe the experimental designs that can be used for validation of data sets.
- Q8) Write short notes on the following :
- a) Patenting under PCT
- b) New Developments in IPR