



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

I SEMESTER M.TECH. (ALL BRANCHES)

FINAL EXAMINATIONS NOVEMBER 2019

SUBJECT: RESEARCH METHODOLOGY AND TECHNICAL COMMUNICATION [HUM 5151]

Date of Exam: 26/11/2019 Time of Exam: 2 PM - 4 PM Max. Marks: 30

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data, if any, may be suitably assumed.

1.	Explain the 8-step research process.	[6]
2.	Describe the steps of reviewing the literature.	[4]
3.	Why problem formulation is an important step in research?	[5]
4.	Explain variables from a viewpoint of causal relationships and study design.	[5]
5.	Discuss Hypotheses testing.	[4]
6.	What is the need for sampling? Discuss the various probability sampling techniques.	[6]