

Total number of printed pages:2

PG/1<sup>st</sup>/PFET101

2021

## RESEARCH METHODOLOGY

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

1. a) What do you mean by research? Discuss about different types of research. 10
- b) What is a research problem? State the components of research problem. 10
2. Research process starts from problem definition to preparation of the report. Briefly describe the different steps involved in a research process. 20
3. a) What is meaning of probability sampling? Discuss about simple random sampling, systematic sampling, and stratified sampling. 10
- b) Explain about extraneous variable, confounded relationship, experimental groups, and treatments in the context of research design. 10
4. Write short notes on any **four** of the followings: - 5x4
  - a) Meaning of research
  - b) Necessity of defining a research problem

- c) Objectives of research
  - d) Steps involved in a research process
  - e) Various characteristics of a good research
5. a) Explain the various types of research in detail. 10
- b) Briefly explain how to conduct a literature review during a research. 10
6. a) Explain the term "Plagiarism". 10
- b) What do you understand by the term, "Peer Review"? Discuss the "Simple Blind" and "Double blind" Peer Review methods. 10
7. Discuss various data collection methods with suitable examples. 20

