



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University under Section 3 of the UGC Act, 1956)

Pre – Ph.D. Written Examination – January – 2023

Engineering & Technology

Paper I: Research Methodology

Time: 2 Hours

Marks: 50

PART –A

(5*2M= 10M)

Write Brief notes about the following

Answer all questions

All questions carry equal marks

1. What is meant by conclusion-oriented research?
2. Define critical literature review.
3. In SPSS, what is the “Data Viewer”?
4. Define interim report.
5. What is a predatory journal?

PART – B

(5*4M=20M)

Write Short answers to the following

Answer all questions choosing either a or b

All questions carry equal marks

1. a. How to formulate a research problem? Discuss.
Or
b. How does one go about developing working hypotheses?
2. a. How do you rephrasing a research problem? Give an example.
Or
b. Write short notes on experience survey.
3. a. Discuss about the deliberate sampling method
Or
b. Discuss about the sequential sampling method.



VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

(Deemed to be University under Section 3 of the UGC Act, 1956)

Pre – Ph.D. Written Examination – January – 2023

4. a. What are the different forms in which a research work may be reported?

Or

- b. Specify the 'task of interpretation' in the context of research methodology

5. a. Differentiate between 'philosophy' and 'philosophizing'

Or

- b. List down the scope of philosophy.

PART – C

(2*10M=20M)

Answer any two essay type questions

All questions carry equal marks

1. Write short notes on: a) Ex post facto research b) Criteria of good research.
2. Discuss briefly about the importance of literature review in defining a problem.
3. Discuss briefly about the observation method and interview method of data collection.
4. Briefly discuss about the mechanics of writing a research report.
5. Briefly discuss about the role of philosophy and ethics in research and publications.

