

Roll No.

Total No. of Pages : 02

Total No. of Questions : 08

Ph.D in Faculty of Applied Science (Computer Application) /

Ph.D in Faculty of Engineering (CSE)

RESEARCH METHODOLOGY

M.Code : 77392

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES:

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carry TWENTY marks.

Q1. a) “Research methods are tools for decision making in the hands of a researcher”. Justify the statement.

b) Is pre-testing questionnaire essential for a questionnaire development process? Why there is a general tendency of the researchers to avoid the pre-testing questionnaire?

Q2. What are different survey methods available for launching a research study? Which method is applicable at what situation? Explain by citing examples.

Q3. a) What is Standard deviation? Discuss the advantages and limitations of Standard Deviation.

b) What is t-test? Discuss in detail the conceptual framework and application of t-test.

Q4. a) What do you understand by ANOVA? Discuss the applications and assumptions of ANOVA.

b) Discuss the conceptual framework of chi-square test. Under what circumstances chi-square test of independencies is used?

Q5. Write sort note on :

- a) Completely randomized design
- b) Randomized Block design
- c) Latin Square design
- d) Factorial design

- Q6. a) What is observation? What are the advantages and disadvantages of observation techniques?
- b) What is content analysis and what is the major reason for using this as an observation method?
- Q7. a) What are sampling and non-sampling errors and how can researcher control them?
- b) What are the approaches to be considered when a researcher takes a decision about logical order of questioning? Explain by citing examples.
- Q8. Write note on :
- a) Purpose of research proposal.
- b) Format of research report.

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