

CBCS SCHEME

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14PHDRM

Ph.D./M.Sc. (Engg.) by Research Degree Examination, April 2018
Research Methodology

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Briefly describe the different steps involved in a Research process. (10 Marks)
b. Explain about the basic types of research :
i) Descriptive Vs Analytical research ii) Applied Vs Fundamental research. (10 Marks)
iii) Conceptual Vs Empirical research.
- 2 a. Explain the meaning of the following : i) Extraneous variable ii) Confounded relationship iii) Research hypothesis iv) Experimental and Control groups v) Treatments. (10 Marks)
b. Explain the Research diagram. (10 Marks)
- 3 a. What are the sources of secondary data? Discuss the advantages and disadvantages of secondary data. (10 Marks)
b. Describe briefly with reference to scale construction techniques :
i) Likert type scales ii) Multidimensional scaling. (10 Marks)
- 4 a. Briefly discuss the basic measurement of scaling techniques, with suitable examples. (10 Marks)
b. What is Probability Sampling Techniques? Discuss various methods under probability sampling technique. (10 Marks)
- 5 a. Explain in brief the factors for systematic bias with a reference to criteria of selecting a sample. (10 Marks)
b. Explain briefly with a reference to interview method :
i) Personal interviews ii) Telephonic interviews. (10 Marks)
- 6 a. Write the procedure for hypothesis testing. (10 Marks)
b. Explain briefly on testing the hypothesis : (10 Marks)
i) Null hypothesis ii) Level of significance iii) Type – I and Type – II errors.
- 7 a. Describe the precautions that the researcher should take while interpreting his findings. (08 Marks)
b. Explain briefly the different types of report. (12 Marks)
- 8 a. Write the different steps involved in writing report. (10 Marks)
b. Describe in brief, the layout of a research report, covering all relevant points. (10 Marks)
