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M.TECH

Total Number of Pages :1

M.TECH 3rd SEMESTER REGULAR EXAMINATIONS, DECEMBER 2018

RESEARCH METHODOLOGY

Branch: EC, Subject Code:MEC0E3012

(Regulations 2017)

Time: 3 Hours

Max Marks : 70

Question Code: RD18002018

PART-A (10 X 2=20 Marks)

1. Answer the following questions.

- What do you mean by coding? Give an example.
- Define Type-I, and Type-II error in testing hypothesis.
- Distinguish between t-distribution and z-distribution?
- What do you mean by multiple regression analysis?
- Highlight the differences between Nominal and Ordinal Scale with example.
- Under what circumstances you would use stratified scale ?
- What do you mean by open-ended and close-ended questionnaire?
- Write different methods of collecting data?
- What are the characteristics of a good research report?
- What is regression analysis and mention its application?

PART-B (5 X 10=50 Marks)

Answer any five questions from the following.

- What do you mean by research process? Explain the different types of research. [5]
 - What is a research problem? State the components of a research problem. [5]
- Explain Research Design Process in detail. [5]
 - Define hypothesis and discuss the need for hypothesis in social research? [5]
- What guidelines you have to follow in design of questionnaire. Describe different states of questionnaire. [5]
 - Briefly discuss about the steps involved in literature review. [5]
- Write down the characteristics of secondary data collection? [5]
 - What are the various operations involved in processing the collected data? [5]
- Write down the procedure for hypothesis testing. [5]
 - Compare the merits and demerits of primary and secondary sources of data? [5]
- Describe the procedures for preparing a thesis report? [5]
 - What is plagiarism? How to avoid it? [5]
- Write short notes on
 - Stratified sampling [5]
 - Non Parametric test [5]