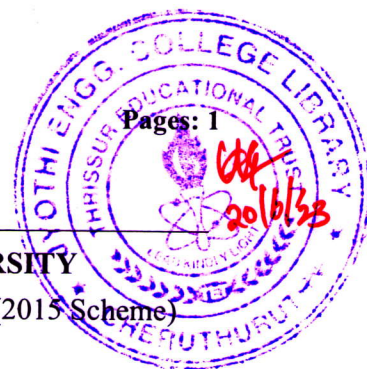


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Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

Eighth Semester B.Tech Degree (S, FE) Examination June 2023 (2015 Scheme)

**Course Code: MR468**

**Course Name: Research Methodology**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 5 marks.*

Marks

- |   |   |     |
|---|---|-----|
| 1 | What is the need for research?  | (5) |
| 2 | List out the differences between exploratory and descriptive research design. | (5) |
| 3 | Elucidate the types of data and its collection methods.                       | (5) |
| 4 | What are the types of causal relationships?                                   | (5) |
| 5 | Compare simple and complex tabulation methods.                                | (5) |
| 6 | Explain the significance of graph simulation.                                 | (5) |
| 7 | Why interpretation is necessary in research process?                          | (5) |
| 8 | What are the different techniques of interpretation?                          | (5) |

**PART B**

*Answer any three full questions, each carries 10 marks.*

- |    |  |      |
|----|--|------|
| 9  | Distinguish theoretical research from experimental research.           | (10) |
| 10 | What are the problems encountered by Indian researchers?               | (10) |
| 11 | How to design an electronic questionnaire?                             | (10) |
| 12 | Write a short note on emphasising the importance of literature review. | (10) |
| 13 | What are the steps involved in selecting a research task?              | (10) |

**PART C**

*Answer any two full questions, each carries 15 marks.*

- |    |  |            |
|----|--|------------|
| 14 | Narrate the following with examples<br>(i) Concepts of modelling<br>(ii) Partial differential equation | (7)<br>(8) |
| 15 | Draw out the features of an Ordinary differential equation model and difference equation model.        | (15)       |
| 16 | Explain the mechanics in writing a research report.  | (15)       |
| 17 | Discuss on the different steps involved in report writing.   | (15)       |

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