

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Eighth Semester B.Tech Degree (S, FE) Examination May 2024 (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

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| 1 | Elucidate the concept of research. | (5) |
| 2 | What are the problems encountered by Indian researchers? | (5) |
| 3 | Explain "quantification of cause-effect relation". | (5) |
| 4 | How to design an electronic questionnaire? | (5) |
| 5 | What do you mean by mathematical modelling and simulation? | (5) |
| 6 | Enumerate the process in model based simulation. | (5) |
| 7 | List out the different techniques used to interpret data. | (5) |
| 8 | What are the precautions taken while preparing a research report? | (5) |

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

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| 9 | Distinguish applied research from theoretical research. | (10) |
| 10 | What are the criteria for good research? | (10) |
| 11 | Classify the different methods involved in collecting primary data? | (10) |
| 12 | How to formulate a research problem? | (10) |
| 13 | Distinguish survey method from observation method. | (10) |

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

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| 14 | Explain the mechanics in writing research report. | (15) |
| 15 | Discuss on the different steps involved in report writing. | (15) |
| 16 | How does graphical simulation aid in good modelling? | (15) |
| 17 | Narrate the various mathematical models involved in research. | (15) |
