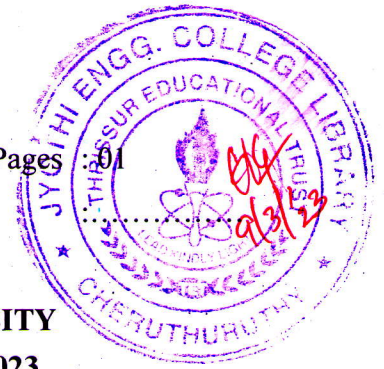


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Total Pages : 01

Name



**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
**First Semester M.Tech Degree Examination, March 2023**  
**221RGE100 Research Methodology and IPR**

Max Mark : 60

Duration: 2.5 hours

***Part -A***  
***Marks: 30***

***Answer all the questions, each carries 5 marks***

1. Distinguish between Research methods and research methodology.
2. Explain the meaning of the following in context of research design
  - a. Extraneous variable
  - b. Confounded relationship and
  - c. Research hypothesis
3. Name one software and its features used for effective literature survey.
4. Explain the characteristics of a scientific research
5. Explain the mechanics of writing a research report.
6. Using block diagram explain the steps and procedures involved in the Indian patent filing process.

***Part -A***  
***Marks: 30***

7. Answer the following in the background of "Development of stable and robust mechanisms for implementing effective design of constraints for DoF with suitable application"
    1. What is the main research problem addressed?
    2. Identify the type of research
    3. Discuss the shortcomings in literature review if any?
    4. Discuss the significance of the study
    5. Discuss appropriateness of the methodology used for the study
    6. Summarize the important results and contributions by the authors
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