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III Semester M.C.A. Degree Examination May/June - 2025**COMPUTER APPLICATIONS****Research Methodology
(CBCS Scheme 2020-21)****Paper : 3MCA3****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates :****Answer All Sections.****SECTION - A**

- I. Answer any **Five** of the following questions. Each question carries **6** marks. **(5×6=30)**
1. What do you mean by Research? Explain its significance.
 2. What is Hypothesis? What is the significance of formulating the hypothesis in research work?
 3. Explain the difference b/w correlation and regression with an example.
 4. What is spectral analysis and where is it commonly applied?
 5. Explain how to construct a frequency table for one-variable data.
 6. Describe the purpose of using statistical software GRETL in research.
 7. Explain the Mechanism of writing report.
 8. Explain the research process steps in detail.

SECTION - B

Answer any **Four** of the following questions. Each questions carries **10** marks. **(4×10=40)**

9. a) Describe the different types of research. **(5)**
b) Explain the Ethical principles in research based on the APA Ethics code. Why is ethical conduct Essential in research studies? **(5)**
10. a) What is the importance of a literature review in research. **(5)**
b) Explain the classification of data with suitable examples. **(5)**
11. a) Explain how statistical measures of central tendency used in research. **(5)**
b) Discuss time series model and its importance. **(5)**

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12. Describe the different types of tables and graphs used to show the relationship between two variables with an example. (10)
13. a) Explain the role of computer in the different phases of Research. (5)
b) Explain the types of research report. (5)
14. Discuss and explain the structure and main components of a research report. (10)
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