III Semester M.C.A. Examination, April/May 2022
(CBCS Y2K20 Scheme)
COMPUTER SCIENCE
3MCA3 : Research Methodology

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer **any five** questions from Section – **A**, **each** question carries **6** marks.
2) Answer **any four full** questions from Section – **B**, **each** question carries **10** marks.

SECTION – A

(5×6=30)

1. Define Research. How to frame title of Research ? Explain with examples.

2. All student in a class have age 20. What is the standard deviation ? How to interpret the data ?

3. What is the use of computer in research ?

4. Explain data analysis with GRETL tool.

5. Compare correlation and regression models.

6. Explain optimization using fuzzy system.

7. Summarize the outline of the popular report.

8. Discuss any three phases of genetic algorithm.

SECTION – B

(4×10=40)

9. Explain various steps of research process.

10. How to test a hypothesis ? Explain the chi-square test steps with example.

11. Explain how statistical measures of central tendency used in research.

12. Discuss any one time series model and its use.

13. Explain the role of simulation in research with example.

14. Explain the mechanism of writing a research report.

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