

M.C.A. - II (Two Years Programme) (New CBCS Pattern) Semester - IV
PSMCAP401 - Research Methodology Development Paper-I

P. Pages : 2

Time : Three Hours



GUG/S/23/13654

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram wherever necessary.
 3. Avoid vague answer and write answer relevant and specific to question only.

Either:

1. a) What is meant by Research? Explain the Objective of Research? 8
- b) Explain the following types of Research 8
 - i) Fundamental Research
 - ii) Exploratory Research

OR

- c) Distinguish between Research Method and Methodology. 8
- d) What is Research problem? Explain steps involved in defining a problem. 8

Either:

2. a) What is research design? Explain why it is important in the research process. 8
- b) How to select a Random sample? Describe Random sample from an infinite universe. 8

OR

- c) Explain sampling design with suitable example. 8
- d) Explain basic principles of Experimental design. 8

Either:

3. a) What is scaling? Explain the scale classification bases in brief. 8
- b) Define primary data. Explain different techniques of collecting primary data. 8

OR

- c) Discuss the various measures of Relationship. 8
- d) Explain partial correlation in detail. 8

Either:

4. a) What is Hypothesis? Explain function and importance of Hypothesis. 8
- b) What is ANOVA? Explain basic principle of ANOVA. 8

OR

- c) Discuss the steps involved in applying Chi-square test. 8
- d) What is the purpose of an ANOVA Table and How does it organized and display the results of an ANOVA analysis? 8
5. Attempt **all** the questions.
- a) What are essential Criteria for Evaluating the quality of research. 4
- b) How to develop a research plan? Explain in brief. 4
- c) Write detail note on simple Regression Analysis. 4
- d) What is Yate's Correction? Explain with suitable example. 4
