

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

P. Pages : 1

Time : Three Hours



GUG/W/23/13654

Max. Marks : 80

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

**Either:**

1. a) Explain types of Research in detail. **8**  
b) Discuss Criteria of Good Research. **8**

**OR**

- c) Write a detail note on Research method and methodology. **8**  
d) Discuss problems encountered by researchers in India. **8**

**Either:**

2. a) Explain need for Research design in detail. **8**  
b) Discuss criteria of selecting a sampling procedure. **8**

**OR**

- c) Explain different types of sample designs. **8**  
d) Write a detail note on developing a Research plan. **8**

**Either:**

3. a) Explain measurement scales and scaling in detail. **8**  
b) Write a note on:  
i) Statistics in Research. **8**  
ii) Correlation and Regression.

**OR**

- c) Explain important scaling techniques in detail. **8**  
d) Discuss primary data collection in detail. **8**

**Either:**

4. a) What is Hypothesis? Explain function and importance of hypothesis. **8**  
b) Explain chi-square as a test for comparing variance. **8**

**OR**

- c) Explain ANOVA Technique in detail. **8**  
d) Discuss important characteristics of C2 test. **8**

5. Attempt all the questions.  
a) Explain objectives of Research. **4**  
b) Write a note on Random Sampling. **4**  
c) Explain simple Regression analysis in brief. **4**  
d) Explain basic principle of ANOVA **4**

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