

M.Sc.- II (Computer Science) (CBCS Pattern) Semester-III
PSCST11 - Paper-III - Research Methodology and Operational Techniques

P. Pages : 2

Time : Three Hours



GUG/S/25/11234

Max. Marks : 80

-
- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data whenever necessary.
 3. Avoid vague answer and write specific answer related to question.

Either:

1. a) Define Research. Briefly explain research methodology. 8
- b) Write a detail note on six P of Research. 8

OR

- c) Discuss the criteria of good research in detail. 8
- d) Write a note on Mail Survey with example. 8

Either:

2. a) Give the criteria for sampling procedure in detail. 8
- b) Explain objectives and motivation in research. 8

OR

- c) Discuss meaning and techniques of interpretation in detail. 8
- d) Write a short note on: 8
 - i) Judgmental Sampling Technique
 - ii) Convenience Sampling Technique

Either:

3. a) Explain type – I and type – II errors with suitable examples. 8
- b) Write a detail note on chi-square test. 8

OR

- c) Discuss two tailed and one-tailed test in Research. 8
- d) Define Hypothesis. Explain null hypothesis in detail. 8

Either:

- | | | | |
|-----------|----|--|----------|
| 4. | a) | What is ANOVA? Explain in detail. | 8 |
| | b) | How Chi-square test help for Large Samples? Explain. | 8 |

OR

- | | | | |
|-----------|----|--|----------|
| | c) | Write a note on Analysis of variance with its methods. | 8 |
| | d) | Explain Limitation of chi-square test in detail. | 8 |
| 5. | | Attempt all the questions: | |
| | a) | What are the objectives of Research? | 4 |
| | b) | Write note on Systematic Random in short. | 4 |
| | c) | Explain the idea of Degree of freedom. | 4 |
| | d) | Give the advantages of ANOVA. | 4 |
