Roll No.							Total No. of Pages : 0
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Total No. of Questions: 08

PHD

RESEARCH METHODOLOGY

Subject Code: PHAS-901

Time: 3 Hrs. Max. Marks: 100

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT question.
- 2. Each question carry TWENTY marks.
- 1. Discuss experimental research and descriptive research. What do you mean by research
- 2. problem and what are the approaches to identify the research problem? What is the role of literature survey in research?
- Discuss the Probability and Non-Probability sampling techniques. What are the sources of 3.
- 4. stress in research? What steps or techniques a researcher should use to manage the stress?

 What is Questionnaire? What are the different scaling techniques used in re-
 - What is Questionnaire? What are the different scaling techniques used in research? What is
- 5. hypothesis and what are the types of hypothesis? What is the procedure of testing
- 6. the hypothesis? What is the significance level and degree of freedom?

 What is the use of ANOVA? Discuss the procedure to perform one way ANOVA test? Describe
- 7. the purpose and use of Kaiser's measure of sampling adequacy (MSA) and
- 8. Bartlett's Test of Sphericity. Using the concept of variance, argue for a good way to determine the number of factors to retain in an exploratory factor analysis. Explain the meaning and use of factor loadings in the context of a common factor analysis (PAF). What is an oblique rotation of factors and what is its purpose?

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