

**MASTER OF PHILOSOPHY/DOCTOR OF  
PHILOSOPHY IN COMMERCE**

**Term-End Examination**

**December, 2015**

**RCO-001 : RESEARCH METHODOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

- Note :**
- (i) *Attempt any five questions.*
  - (ii) *All questions carry equal marks.*

1. (a) What is a research problem ? Discuss the various issues to be considered in formulating a research problem (Topic). **10+10**
- (b) State the components of a research design and draw a brief research design for your proposed research problem.
2. Discuss the advantages and limitations of sampling methods used in business research. How sample size is calculated ? Discuss the method used. **12+8**
3. (a) Explain any two types of measurement scales. How do you select an appropriate scaling technique for a research ?
- (b) Give a brief description of different kinds of diagrams and graphs generally used in business research to present the data. **10+10**

4. (a) Explain the concept of significance in tests of hypothesis. Discuss, briefly the procedure of testing a hypothesis.
- (b) Explain, how correlation and regression analysis help in analysing the statistical data. **10+10**
5. (a) Describe the types of mistakes that frequently occur in interpretation of data. What precautions do you suggest to avoid them ?
- (b) Describe the methods which are useful for decision making under uncertainty. **10+10**
6. (a) Discuss the role and usefulness of various applications of software in processing the research data.
- (b) Explain the significance of research in various functional areas of business. **10+10**
7. (a) What do you mean by continuous probability distribution? How does it differ from binomial distribution ? **10+10**
- (b) Why do we use chi-square test ? Explain the conditions for applying chi-square test.
8. Write a short notes on the following : **5+5+5+5**
- (a) Sample Design
- (b) t-Test
- (c) Statistical Fallacy
- (d) Sampling Errors
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