

**2017**

*Time : 3 hours*

*Full Marks : 70*

*Candidates are required to give their answers in  
their own words as far as practicable.*

*The questions are of equal value.*

*Answer any **five** questions.*

1. What do you mean by Research Methodology ?  
Discuss it's significance and describe the  
different types of Research.
2. Discuss the concept of Research Design.  
Describe some important research design for  
research study.
3. What do you mean by 'Sample Design' ? Discuss  
the points should be taken into consideration by  
a researcher in developing a sample design for  
his research project.

4. Discuss the difference between questionnaires and schedules. Describe the contents in construction of questionnaire.
5. Write a brief note on different types of analysis of data pointing out the significance of each.
6. Define hypothesis. What are the types of hypothesis ? Explain them with suitable examples.
7. Write short notes of the following :
  - (a) Type-I error
  - (b) Sign Test
  - (c) Binomial test
  - (d) Eigen values
8. What do you mean by multivariate analysis ? Discuss how it differs from bivariate analysis.
9. What is Chi-square ? Explain its significance in statistical analysis.
10. Describe, in brief, the layout of a research report, covering all relevant points.

