

M.F.D.(Part-II)(with Credits)-Regular-Semester 2012 Sem III  
**MFD234 - Research Methodology and Statistics 3MFDT-4**

P. Pages : 1

Time : Three Hours



**GUG/W/16/3138**

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.  
2. Calculator and statistical table permitted.

1. a) Explain the detailed format, the meaning of the term 'Research' and elaborate the concept of research objectives. **16**

**OR**

- b) What is the nature and significance of research problems. Explain the limitation of qualitative research.

2. a) Discuss about primary and secondary data collection method, how do we process and analyzing of data according to sources. **16**

**OR**

- b) Compare between qualitative research and quantitative research. **8**

- c) Explain reliability and validity of research tool. **8**

3. a) How do we prepare format of research proposal. **8**

- b) What is the specific role of review of related literature. **8**

**OR**

- c) Discuss about individual and institutional research proposal. **8**

- d) What is the specific role of review of related literature. **8**

4. a) Give a brief description of the different kinds of diagrams generally used to present statistical data. **8**

- b) Out of 8000 graduates in a town 800 are females. Out of 1600 graduate employees 120 are females. Use Chi-square to determine if any discrimination is made in appointment on the basis of sex for  $\nu=1$  and  $p=0.05$  the critical value of  $\chi^2$  is 3.84. **8**

**OR**

- c) Explain the properties of sample variance and standard deviation. **8**

- d) Find out which one of the following two characteristics is more stable. **8**

Length in inches	3	4	6	7	10
Weight in grams	9	11	14	15	16

5. Write in short **any four**. **16**

- Plan of research.
- Criteria for good research.
- Sources of error in research.
- Types of variables.
- Use of graphical representation.

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