

M.F.D. - II (CBCS Pattern) Semester - III  
**3T-2 - Research Designing and Planning**

P. Pages : 2  
Time : Three Hours



**GUG/S/23/11135**  
Max. Marks : 80

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

1. a) What is 'Research'? Discuss the methods and objectives of research. 16

**OR**

b) Explain the concept & features of research design. How do you select the research problem. 16

2. a) What is reliability and validity of research tool. 8

b) Discuss Qualitative & quantitative studies. 8

**OR**

c) Explain the difference between collection of data through questionnaires and schedules. 8

d) What is primary and secondary source of data? 8

3. a) Explain format of a research proposal. Differentiate between individual and institutional research proposal. 16

**OR**

b) Explain the format of a research report, with steps involved in planning report writing work. 16

4. a) Define the term of 'Hypothesis' with various definition & write down details about 'Null Hypothesis' & it's characteristics. 16

**OR**

b) Calculate the co-efficient of contingency ( $x^2$ ) from the following data. 16

	Level of children			
Income group of family	Dull	Average	Brilliant	Total
Lower	22	35	23	80
Middle	38	70	32	140
Higher	60	20	20	100
Total	120	125	75	320

Do these results suggest that the level of children is affected by the Income group of the family? (At 5% level of significance the value of  $x^2$  is 9.488 for 4 degrees of freedom).

5. Write short **any four**.

**4x4  
=16**

a) Criteria for good research.

b) Analyzing of data.

c) References

d) Find out the mean

X	F
30	1
26	2
22	3
18	3
15	1
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N = 10	

e) Find the value of median

Marks	Fre
10 to 20	10
20 to 30	20
30 to 40	10
40 to 50	5
50 to 60	10
60 to 70	20
70 to 80	10
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n = 85	

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