

AL-127

April-2016

M.Sc., Sem.-VI (CA & IT)**Research Methodology****Time : 2 Hours]****[Max. Marks : 50****Instruction :** Non-programmable Scientific Calculator can be used.

1. What do you mean by Research ? Explain it's significance in modern times. **10**

OR

Write short note on Qualitative and Quantitative Approaches of Research.

2. State different method for collecting primary data. Explain any two of them. **10**

OR

Distinguish between probability and non-probability sampling.

3. Explain Research process with diagram. **10**

4. "Interpretation is an art of drawing inferences, depending upon the skill of the researcher". Elucidate the given statement explaining the technique of interpretation. **10**

OR

Explain in detail different steps involved in writing the report.

5. Attempt the following : **10**

(A) The following information is obtained concerning an investigation of 50 ordinary shops :

	Shops		
	In town A	In town B	Total
By Men	18	17	35
By Women	12	03	15
Total	30	20	50

Can it be interfered that shops run by women are relatively more in town B than in town A ? Use χ^2 -test. ($\chi^2_{(1,0.05)} = 3.841$).

- (B) A simple Random sampling survey in respect of monthly earnings of semi-skilled workers in two cities gives the following statistical information :

Cities	Mean	Stand. Deviation	Size of Sample
A	14	3.667	7
B	11	6	5

Is there any evidence difference in monthly earnings of the two cities ? Use 5% level of significance for testing this difference between the means of two samples. ($T_{\text{tab}} = 1.812$)

OR

5. Set-up an analysis of variance table for the following data. Find out whether the difference in the means of the production of crops of the plot is significant or not. **10**

A	B	C	D
8	9	3	3
12	4	8	7
01	7	2	8
03	1	5	2

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