



K18P 0198

Reg. No. :

Name :

Second Semester M.Com. Degree (Regular/Supplementary/Improvement)
Examination, March 2018
(2014 Admn. Onwards)

**COM 2C07 : RESEARCH METHODOLOGY AND COMPUTER
APPLICATION**

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **any four** questions in this Section. **Each** question carries **1** mark for Part (a), **3** marks for Part (b) and **5** marks for Part (c).

1. a) What is a Research Design ?
b) Distinguish between exploratory study and descriptive study.
c) Explain the qualities to be possessed by a good researcher.
2. a) What do you mean by sample design ?
b) How would you differentiate between simple random sampling and complex random sampling designs ?
c) Why probability sampling is generally preferred in comparison to non-probability sampling ? Explain the procedure of selecting a simple random sample.
3. a) What is Hypothesis ?
b) What are the sources of Hypothesis ?
c) Explain the characteristics of a good hypothesis.
4. a) Define Primary Data.
b) Explain interview method. What are its advantages and disadvantages ?
c) Explain the essentials of a good questionnaire.
5. a) What are non-parametric tests ?
b) What is chi-square test ? Explain its uses.
c) Explain the technique of analysis of variance in two way classification of data.

P.T.O.



6. a) What is a popular research report ?
 b) Explain the various steps in report writing.
 c) Explain the structure of the main text of a research report. (4×9=36)

SECTION – B

Answer the two questions in this Section. Each question carries 12 marks.

7. a) Below are given the yield [in kg] per acre for 5 trial plots of 4 varieties of treatment.

Plot No.	Treatment			
	I	II	III	IV
1	40	44	65	80
2	52	70	55	92
3	60	66	76	80
4	36	80	62	84
5	52	70	72	64

Carry out an analysis of variance [one way] and state your conclusions.

OR

- b) A systematic sample of 100 pages was taken from the concise Oxford Dictionary and the observed frequency distribution of foreign words per page was found to be as follows :

No. of Foreign words per page (x) :	0	1	2	3	4	5	6
Frequency (f) :	50	23	14	7	4	1	1

Test whether the distribution confirms to Poisson distribution.

8. a) The following table gives the number of units produced per day by two workers A and B for a number of days :

A : 50 40 48 51 48 45

B : 49 48 51 43 42 49 50 44

Should these results be accepted as evidence that the two workers are equally stable ? [Use F-test]

OR

- b) What do you mean by Research ? Explain its significance. State various problems which a researcher has to face. (2×12=24)