Reg. No. : ....

Name : ....

II Semester M.Com. Degree (Reg./Suppl./Imp.) Examination, April 2019
(2014 Admission Onwards)
COM2C07 : RESEARCH METHODOLOGY AND COMPUTER APPLICATION

Time : 3 Hours   Max. Marks : 60

SECTION – A

Answer **any four** question 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 Depth Interview ?
   b) List out the various advantáges of case study method.
   c) Explain the any three formal experimental design.

2. a) What is range ?
   b) What are the features of a good research design ?
   c) Distinguish between Surveys and Experiments.

3. a) Define sampling.
   b) Distinguish between systematic and stratified sampling.
   c) Explain the various steps in writing report.

4. a) What is point estimation ?
   b) Discuss the four types of measurement scales.
   c) What are the points to be taken care off by the researcher with regards to sampling design ?

5. a) What is data cleaning ?
   b) Explain the characteristics of hypothesis.
   c) Clearly explain difference between collection of data through questionnaires and schedule.

6. a) What is probability sample ?
   b) What is chi-square test ? Explain its significance in strategical analysis.
   c) What are the guiding consideration in the construction of questionnaire ? Explain.

P.T.O.

SECTION – B

Answer either **a** or **b** from **each** of the following. **Each** question carries **12** marks.

7. a) Memory capacity of 9 students was tested before and after training. State at 5 percent level of significance whether the training was effective from the following scores :

Student	1	2	3	4	5	6	7	8	9
Before	10	15	9	3	7	12	16	17	4
After	12	17	8	5	6	11	18	20	3

Use paired t-test.

b) Two research workers classified some people in income groups on the basis of sampling studies. Their results are as follows :

Investigators	Income Groups			Total
	Poor	Middle	Rich	
A	160	30	10	200
B	140	120	40	300
Total	300	150	50	500

Show that the sampling technique of at least one research worker is defective.

8. a) A simple random sampling survey in respect of monthly earnings of semi-skilled workers in two cities gives the following statistical information :

City	Mean monthly earnings	Standard deviation of sample data of monthly earnings	Size of sample
A	695	40	200
B	710	60	175

Test the hypothesis at 5 percent level that there is no difference between monthly earnings of workers in the two cities.

b) "Report writing is more an art that hinges upon practice and experience". Discuss.

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