M 27267

Reg. No. : ....

Name : ....

**Second Semester M.A./M.Sc./M.Com. Degree (Regular/Supplementary/
Improvement) Examination, March 2015
COMMERCE (2014 Admn. Onwards)
COM 2C07 : Research Methodology and Computer Application**

Time : 3 Hours
Max. Marks : 60

Instructions: *In the Section* **A**, *Answer* **any four** *questions.*
In the Section **B**, *Answer* **two** *question.*

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 do you mean by research, research method and research methodology ?

   b) What are the characteristics of a research ?

   c) Write a short note on different methods of social research.

2. a) What is meant by case study ?

   b) What is the need for reviewing literature for research ?

   c) Briefly explain the different types of experimental design.

3. a) What is meant by observation ?

   b) What are the characteristics of a good sample ?

   c) Differentiate between questionnaire and schedule.

4. a) What is mean by null hypothesis ?

   b) Explain one tailed and two tailed test.

   c) State the various assumptions and uses of ANOVA.

5. a) What do you mean by spread sheet ?

   b) Briefly explain the uses of SPSS.

   c) Critically evaluate the role of computer in carrying out research.

P.T.O.

6. a) Distinguish between foot note and bibliography.

   b) What are the characteristics of a good report ?

   c) Discuss in detail the process of writing a research report.   (4×9=36)

SECTION – B

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

7. a) The table given below shows the data obtained during outbreak of smallpox.
      Is the vaccination is effective ?

	Attacked	Not attacked	Total
Vaccinated	31	469	500
Not vaccinated	185	1315	1500
Total	216	1784	2000

   Use x^2 test.

OR

   b) Eight coins were tossed 256 times and the following results were obtained

Numbers of heads	0	1	2	3	4	5	6	7	8
Frequency	2	6	30	52	67	56	32	10	1

   Are the coins biased ? Use x^2 test.

8. a) Explain the different types of research design.

OR

   b) Three varieties of crops A, B, C are tested in a randomnised block design
      with four replication the yield are given below

Variety	Replications				Total
	1	2	3	4	
A	6	4	8	6	24
B	7	6	6	9	28
C	8	5	10	9	32

   Test whether there is difference between varieties test also whether yield of
   A differs significantly from that of B.   (2×12=24)