K20P 0368

Reg. No. : ....

Name : ....

II Semester M.Com. Degree (CBSS – Reg./Suppl./Imp.) Examination, April 2020
(2014 Admission Onwards)
COM2C07 – 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)**.   (4×9=36)

1. a) What is pilot survey ?

   b) What are the objectives of research ?

   c) Explain the various scale classification bases.

2. a) What is hypothesis ?

   b) State the components of research problem.

   c) Briefly explain the major steps involved in sampling design.

3. a) What is Sign Test ?

   b) What are the criteria for good research ?

   c) Explain any six types of research.

4. a) What is multistage sampling ?

   b) Differentiate between Type I and Type II error.

   c) Explain the characteristics of hypothesis.

5. a) What is sampling frame ?

   b) Write a short note on Latin square design.

   c) Briefly explain the layout of a research report.

6. a) What is Measures of Central Tendency ?

   b) Explain the procedures involved in developing Likert Scale.

   c) Write a short note on Holtzman Inkbolt Test.

P.T.O.

SECTION – B

Answer either a) or b) from **each** of the following. **Each** question carries
12 marks.   (2×12=24)

7. a) Sample of sales in similar shops in two towns are taken for a new product
   with the following results :

Town	Mean sales	Variance	Size of sample
A	57	5.3	5
B	61	4.8	7

   Is there any evidence of difference in sales in the two towns ? Use 5 per cent
   level of significance for testing this difference between the means of two
   samples.

   OR

   b) The meal plan selected by 200 students is shown below :

Class Standing	Number of meals per week			Total
	20/week	10/week	none	
Fresh	24	32	14	70
Sophomore	22	26	12	60
Junior	10	14	6	30
Senior	14	16	10	40
Total	70	88	42	200

   Test "Class standing" is independent of "Number of Meals per Week".

8. a) Set up an analysis of variance table for the following per acre production
   data for three varieties of wheat, each grown on 4 plots and state if the
   variety differences are significant.

Per acre production data			
Plot of land	Variety of wheat		
	A	B	C
1	6	5	5
2	7	5	4
3	3	3	3
4	8	7	4

   OR

   b) Explain various phases in research process.

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