

## MBA-1 Sem.-2 Examination

B. R. M.

May-2025

Time : 2-00 Hours]

[Max. Marks : 50

- Instructions: (1) This paper contains **FIVE** questions.  
 (2) All questions are compulsory.  
 (3) Question No.2, 3, 4 have internal options.  
 (4) Figures in the right side in parenthesis indicate marks.

**Q:1** Distinguish between the following. (Any Two) (10)  
 1. Primary data v/s secondary data  
 2. Open-ended response v/s fixed-alternative questions  
 3. Null hypothesis v/s alternate hypothesis

**Q:2** What is Research? Explain with a diagram the different steps of a research process. (10)

OR

**Q:2** Select a title of your choice and design a questionnaire for the same. (10)

**Q:3** Probability v/s non- probability-based sampling techniques. (10)

OR

**Q:3** Write a detailed note on writing and formatting of the reports. (10)

**Q:4** Explain in brief commonly used measurement scales namely nominal, ordinal, interval and ratio by citing examples. (10)

OR

**Q:4** Are the types of professional jobs held in the computing industry independent of the number of years a person has worked in the industry? Suppose 246 workers are interviewed. Use the results obtained to determine whether type of professional job held in the computer industry is independent of years worked in the industry. Find Chi-square calculated value (x2 cal). (10)

Years/Occupation	Manager	Programmer	Operator	System Analyst	Total
0-3 years	6	37	11	13	67
4-6 years	28	16	23	24	91
More than 6 years	47	10	12	19	88
<b>Total</b>	81	63	46	56	246

**Q:5** Suppose you are using completely randomized design to study some phenomenon. There are 3 samples and a total of 30 people in the study. Each sample has same sample size. Complete the following ANOVA and write the steps of ANOVA by making necessary assumptions. F tab value =3.34) (10)

Sources of variance	SS	df	MS	F
Treatment	91.467			
Error				
<b>Total</b>	367.867			