M. B. A. (Sem. II) (CBCS) Examination
April / May - 2018
Research Methodology

Time : **3** Hours]   [Total Marks : **70**

1   What do you mean by the term "Research" ? Explain in   **14**
       detail the steps for process of conducting a research along
       with its components.

OR

1   Define Sample and Sampling. Briefly explain Probability   **14**
       and Non-probability sampling methods with Advantages and
       Disadvantages.

2   (a)   What is Hypothesis? Explain characteristics and   **7**
             components of Hypothesis.

       (b)   Write a note on Measurement an Scaling Techniques   **7**
             of Research.

OR

2   (a)   "It is important for a researcher to review the   **7**
             available literatures relating to topic" Why?

       (b)   What is Research Problem? Give the process of   **7**
             identification of research problem in detail.

3   Define Data collection. Explain all the different methods   **14**
       of Data Collection along with advantages and disadvantages
       in detail.

OR

3   What is Research Methodology? Explain different types   **14**
       or Methods and techniques of Research with examples in
       detail.

4   (a)   Tea post at Saurashtra university has been having average sales of 500 tea cups per day. Because of the development of bus stand near by, it expects to increase its sales. During the first 12 days after the start of the bus stand, the daily sales were as under :

550, 570, 490, 615, 505, 580, 570, 460, 600, 580, 530, 526

On the basis of this sample information , can one conclude that Tea post's sales have increased? Use 5% level of significance is 1.796

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

City	Mean	S.D.	Size of sample
X	695	40	200
Y	710	60	175

Test the hypothesis at 5% level of significance (1.96) there is no difference between monthly earnings of workers in the two cities.

OR

4   A sample of 870 cars was subjected to different verities and their performance. The resulting data is given below. Use 5% level of significance to examine whether there is any between the types of cars and performance?

Performance	Cars			
	BMW	Ford	Jaguare	Audi
Above average	100	150	40	290
Average	100	100	100	300
Poor	50	80	150	280
Total	250	330	290	870

Table value at 5% level of significance is 9.49

5 Is the interaction variation significant in case of the following information concerning quality of food based on different Brands of baby food and Babies?

		Brands of Baby Food			
		A	B	C	D
BABIES	X	6	4	8	6
		5	5	6	4
	Y	7	6	6	9
		6	7	7	8
	Z	8	5	10	9
		7	5	9	10

5% level of significance $F(2,12)$ is 3.885

5% level of significance $F(3,12)$ is 3.490

5% level of significance $F(6,12)$ is 2.996

OR

5 Write short notes :

(a) Explain the significance and Steps of Report Writing. **7**

(b) Data processing: Editing, Coding, Classification and Tabulation. **7**

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