Ph.D Course Work Examinations, July-2023

COMMERCE

Course-I: Research Methodology

Time: 3 Hours Max. Marks: 70

Answer any Seven of the following questions, each question carries 10 marks (7X10 = 70)

- 1. Define Research. How does research helps to make informed decisions?
- 2. What is Research Problem? What are the key considerations and methods for identifying research problems in the context of Business Research?
- 3. What do you mean by Research Design? State and explain different types of research designs with their appropriateness to use.
- 4. What is Pilot study? What is the role of Pilot study in refining the research design and ensuring the effectiveness of data collection methods?
- 5. What is Research Report? Briefly explain the essential components to be included in a research report.
- 6. Differentiate Reliability and validity of data. How do researchers ensure the validity and reliability of data during data processing stage?
- 7. What is Hypothesis testing? What are the common types of errors that occur in hypothesis testing, and how can researchers minimize them?
- 8. The following data relates to weights of 10 persons before joining a Health club and weights after 6 months from joining:

Weights before :120, 125, 115, 130, 123, 119, 122, 127, 128, 118

Weights after 6 months :111, 114, 107, 120, 115, 112, 112, 120, 119, 112

Test whether there is a significant change in the weights after 6 months from joining the club (significance level = 5%).

9. An intelligence test on 2 groups of students based on Gender gave the following results:

	Mean	Standard Deviation	Sample size
Girls group	75	15	150
Boys group	70	20	250

Is there any significant difference in the mean score obtained by boys and girls. Test at 99% confidence level

10. The following table gives the number of refrigerators sold by 4 salesmen in three different months January, February and March:

Month		Salesmen					
	A	В	C	D			
January	50	40	48	39			
February	46	48	50	45			
March	39	44	40	39			

Is there a significant difference in the sales made by the four salesmen?

Is there a significant difference in the sales made during different months? Test at 95% confidence level.
