

		Time: 3 hrs. Marks:80	
		NOTE: I. Question No. 1 is Compulsory II. Attempt any THREE question from 2 to 6 III. Group Question must be answered together IV. Assume any additional information but justify the same	
1	A	Write short note on: a. i. Construct ii. Concept iii. Law iv. Principle v. Postulate	10
	В	a. Distinguish between Research methods and Research methodology.b. Describe Code of ethics?	05 05
2	A	Discuss objectives and Characteristics of Research.	10
	В	A company has stated that their straw machine makes straws that are 4 mm diameter. A worker believes the machine no longer makes straws of this size and samples 100 straws to perform a hypothesis test with 99% confidence. Write Null and alternative hypothesis for given situation and calculate level of significance?	10
3	A B	Enumerate the different methods of collecting data. Explain briefly. Calculate Mean, Median and Mode for the following data-	10
		Mamata Sudha Lata Jyoti Pushpa 77 73 69 64 52	10
4	A	a. What is measures of asymmetry?b. Define Skewness?	05
	В	What is Chi-square test? Explain its significance in statistical analysis.	05 10
5	A B	What is a literature review in a research study? Discuss different Qualitative and Quantitative Approaches of research	10 10
6	A B	Discuss different types of Sample Design. Describe characteristics of research and research objectives.	10 10

***** ALL THE BEST *****