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M.Com. III Semester Degree Examination, April/May - 2023 COMMERCE

Business Research Methods (CBCS)

Time: 3 Hours Maximum Marks: 70

Note: Answer **any five** of the following questions with Question No. **1 (Q1) Compulsory**, each question carries **equal** marks.

- 1. Define Ethics in Research. Brief out the importance of ethics in Business Research. 14
- **2.** What is Research Design? Briefly explain the essentials characteristics and components of Research Design.
- **3.** What is primary data? Briefly explain the methods of collecting primary data **14** with their respective advantages and application.
- **4.** Answer the following sub-questions
 - (a) What is F-test? State the applications of F-Test.
 - (b) A Tea Company appoints four salesmen A, B, C and D and observes their sales in three seasons Summer, Winter and Monsoon. The figures in lakhs are given in the following table :

Seasons	Salesmen				Total
	A	В	С	D	Total
Summer	36	36	21	36	129
Winter	28	29	31	31	119
Monsoon	26	28	29	29	112
Total	90	93	81	96	360

- (i) Do the salesmen significantly differ in performance?
- (ii) Is there significant difference between summers?
- **5.** What is Research Report? State the Critical Elements of Research report and precautions to be taken by the researcher in drafting the research report.



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- **6.** Answer the following sub-questions:
 - (a) What do you mean by measurement? Differentiate Measurement and scaling. 4
 - (b) Differentiate Reliability and Validity. Briefly explain the tests of reliability.
 - (c) What is Hypothesis Testing? Briefly explain the steps involved in Testing Hypothesis.
- **7.** Answer the following sub-questions :
 - (a) A manufacturer claims that its rechargeable batteries are good for an average of more than 1,000 charges. A random sample of 100 batteries has a mean life of 1002 charges and a standard deviation of 14. Is there enough evidence to support this claim at α =0.01?
 - (b) A milk producers union, wishes to test whether the preference pattern of consumers for its products on income levels. A random sample of 500 individuals gives the following data:

Incomo	Product Prefered				
Income	Product A	Product B	Product C		
Low	170	30	80		
Medium	50	25	60		
High	20	10	55		

Can you conclude that the preference patterns are independent of Income Levels?

8. Answer the following sub-questions:

- (a) A consumer research organization routinely selects several car models each year and evaluates their fuel efficiency. In the year 2022, the organization selected two similar sub-compact models from two different automakers. The average gas mileage for 12 cars of brand A was 27.2 miles per gallon and the standard deviation was 3.8 mpg. The nine brand B cars that were tested and averaged 32.4 mpg and the standard deviation was 4.3 mpg at α =0.01, should it conclude that Brand A cars are lower average gas mileage than do Brand B cars?
- (b) What is data processing? Brief out the steps involved in data processing.
- (c) Differentiate Sample, Sampling and Sampling design.



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