Name. _____ **Printed Pages:01**

Student Admn. No.: _____

School of Liberal Education

Backlog Examination, June 2023

[Programme:] [Semester:] [Batch:]

Course Title: Basic Research Methodology and Statistics **Max Marks: 100**

Course Code: A090201T **Time: 3 Hrs.**

Instructions:

1. *All questions are compulsory.*
2. *Assume missing data suitably, if any.*

		K Level	COs	Marks
	SECTION-A (15 Marks) 5 Marks each			
1.	Define term 'Statistics'.	K1	CO1	5
2.	State the meaning of data in statistics.	K1	CO2	5
3.	Explain briefly about frequency distribution table.	K2	CO3	5
	SECTION-B (40 Marks) 10 Marks each			
4.	Explain in detail about the various measurement scales and also discuss about the type of scales that are frequently used for data collection.	K2	CO4	10
5.	Illustrate the reasons for data organization in statistics.	K3	CO5	10
6.	Illustrate that how can you organize data in the form of a frequency distribution? Illustrate with the help of an example.	K3	CO1	10
7.	In each of the following distributions, indicate: (a) the size of the class interval, (b) the midpoint of the intervals shown. SET A SET B 1-5 1-9 6-10 10-19 11-15 20-29 16-20 30-29 21-25 40-49 26-30 50-59 31-35 60-69 36-40 70-79 OR Draw a Pir Diagram to represent the following data detailing the monthly expenses of an institution: Salary of the staff 60,000,00 Electricity, water and telephone bills 15,000.00 Office stationery 10,000.00 Miscellaneous expenses 15,000.00	K4	CO2	10
	SECTION-C (45 Marks) 15 Marks each			
8.	Compute the average deviation and standard deviation from the given ungrouped data: 20, 25, 26, 29, 24, 34, 36, 28, 24, 25.	K4	CO3	15
9.	Differentiate the various types of Linear Correlation with an hypothetical example including formula and solution.	K4	CO4	15
10	Find the Mean, Median and Mode for the following set of scores: (a) 14, 21, 39, 52, 63, 40 61, 22. (b) 80, 74, 62, 54, 49, 34, 28, 14. (c) 14, 28 39, 40, 52, 65, 73, 82. OR Find Rank Difference Correlation Coefficient from the following data and interpret the results: Individuals A B C D E F G H Marks in Hindi 40 30 60 40 10 55 12 48 Marks in English 45 85 50 32 21 18 45 55	K4	CO5	15