Roll No.



PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations - MAY 2025

School: SOCProgram: BBB, BAV, BBA, BBDCourse Code: SOC2003Course Name: Business statisticsSemester: IIMax Marks: 100Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	25	44	41	48	

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A Answer ALL the Questions. Each question carries 2 marks.

 $100 \times 2M = 20M$

1.	Describe the frequency distribution.	2 Marks	L1	CO2
2.	Define Median.	2 Marks	L1	CO2
3.	Outline the merits of arithmetic mean.	2 Marks	L1	CO2
4.	Label the formula to find Range for individual series.	2 Marks	L1	CO3
5.	Label the formula for co-efficient of variation.	2 Marks	L1	CO3
6.	Define Regression.	2 Marks	L1	CO4
7.	Label the formula to calculate rank correlation.	2 Marks	L1	CO4
8.	List-out the methods of data presentation.	2 Marks	L1	CO1
9.	Differentiate betweeen grouped data and ungrouped data	2 Marks	L1	CO1
10.	From the Following Data Compute Arithmetic Mean: X 9 6 5 4 8 5 3 2 7	2 Marks	L1	CO2

Part B

Answer ALL the Questions. Each question carries 7 Marks.

Total Marks 35M

		Find the av											
11.	a.		Tab	le 1.8a. I	ncome o	istributi	on of p	eople			07 Marks	L3	СО
		Income Class	0- 100000		0000- 00000 400		500000- 600000	600000- 700000	700000- 800000	800000- 900000			2
		Number of Household	3476	4994 9	9857 128	90 7894	4129	8864	4365	1243			
						Or							
12.	a.	Tabulate the Out of a tot in a govern graduates a with some on the output of with experi	al num nment and oth experie male gr	ber of 1 depart ers, noi nce wa	ment, n-grad s 2,623 es was	6,854 suates. To of who 2,012.	were he nu m 1,8 The n	males mber 60 wo umbe	s, 3,14 of car ere ma r of gr	46 were ndidates nles. The	07 Marks	L3	CO 1
		From the Fo	ollowin	σ Data	Compi	ıte Med	ian·				<u> </u>		
		Marks	No. of students		Comp	ite Med	iaii.						
		45-50	1	0									
		40-45	1	5									
13.	a.	35-40	2	6							07 Marks	L3	CO 2
		30-35	3	0									_
		25-30	4	2									
		20-25	3	1									
		15-20	2	4									
						0r						1	
14.	a.	Discuss the example.	07 Marks	L2	CO 1								
		Calculate the mean and standard deviation from the following data:											
15.	a.	Value	30-39	40-49	50-59	60-6	9 70)-79	80-89	90-99	07 Marks	L3	3
		Frequency	2	12	22	20		14	4	1			
						Or							

		The follo	nivers	sity	stage	in I	ndia	acc	ordin	g to	diff	eren				
		Represen														
		Stage Class I to V		Воз	ys	Gi	Girls		Tota							
				35.	35·74		21.31		57.05							
16. a.		Class VI to VIII		9.43		3.	3.89		13.32					07 Marks	L3	CO 1
	Class IX to XI		Class IX to XI 4.87		37 1.71		1·71		6.58							
		Universit College	y/ 2·17 0·64			64		2.81								
		Compute	mod	le fo	r the	give	n dis	trib	utior	۱.						
		Class		20-	30-	40-	50)_	60-	70-	80-	.]		0=		СО
17.	a.	No of		30 15	40 12	50 8	60		70 8	80 14	90			07 Marks	L3	2
		observation		12	12	8		L	O	14	3					
		Or														1
		Х	32	35	49	60	43	37	4) 1	10	20				
		Y	40	30	70	30	50	72	6		45	20	5			
18.	a.												07 Marks	L3	CO	
From the following data, calculate the coefficient of rank correlation between x and y.														4		
		Pin J	LL 1	1/	٠٦٠	2 1	- C 1	1		.						
		Find out the the Median in the following series														
19.	a.	Size (bel	low)	5	10	15	2	0	25	30		35		07 Marks	L3	CO 2
		Freque	ency	1	3	13	3	17	27	:	36	38				
				•			ı	0	r	1	1			1	I	1

20.	a.	Explain the types of Skewness with graph.											07 Marks	L2	CO 4
Answei	r any 1	Γhree Ques	tions.	Each (quest		art C		ıarkı	S			3Q x 15N	1 =45)	м
		Calculate data :	the me												
21.	a.	Marks	0-1		10-20 20		30-4	0 40	0-50 50-6		70)	15 Marks	L3	CO 3
		No of Students	6	Ţ	5	8	15		7	6		3			
22	a.	For the for arithmetic of variation	15 Marks	L3	СО										
22.		Marks No of Students	2	5-10	7	15· 20 13	25	30		30- 35 8	35- 40 3		15 Marks	Lo	3
		Calculate following the working			СО										
23.	a.	Price Demand			70	18 75	19 66	20 67	62	58			15 Marks	L3	4
		 	C 11		_	1	.1			•					
24.	a.	From the equations		ing da	ata, o	otain	tne t	wo re	egres	sion			15 Marks	L3	CO
		Sales Purchases	91 71	97 75	108 69	121 97	67 70	124 91	51 39	73 61	111 80	57 47			4