PRN:		Course Code :	U28PC107

First Year **BBA** Semester End Examination Winter 2024

Business Statistics and logic

000712

Day and Date: Tue, 3 DEC 2024 Max Marks: **50**

Time : 10:30AM To 12:30PM Duration: **2** hrs.

Instructions: i. All questions are compulsory.
ii. Figures to the right indicate full marks.

		Marks	Bloom's Level	CLO
Q.1	**Attempt the following** *(Module 1 to 5)*			
	Define Statistics and its Scope and limitations	10		1
Q.2	**Attempt the following** *(Module 2)*			
a)	Calculate arithmetic mean and median from the following data, Group:410-419 420-429 430-439 440-449 450-459 460-469 470-479 f: 14 20 42 54 45 18 7	05		2
b)	Calculate the mean deviation from mean for the following data Class intervals: 2-4 4-6 6-8 8-10 Frequency: 3 4 2 1	05		2
	OR			
c)	Calculate the mean and standard deviation from the following data Group:90-99 80-89 70-79 60-69 50-59 40-49 30-39 Frequency: 2 12 22 20 14 4 1	05		2
Q.3	**Attempt the following** *(Module 3)*			
a)	Find the probability by addition law of getting either a number multiple of 3 or a prime number when a fair die is thrown.	05		3
b)	Explain the types of data	05		1
	OR			
c)	A couple has 2 children. What is the probability that both the children are boys, if it is known that? (i) younger child is a boy (ii) older child is a boy (iii) at least one of them is boy	05		2
Q.4	**Attempt the following** *(Module 4)*			
a)	Calculate Karl Persons coefficient of correlation between expenditure on advertising and sales from the data given below. Expenses(000 Rs): 39 65 62 90 82 75 25 98 36 78 Sales(Lakh Rs): 47 53 58 86 62 68 60 91 51 84	05		3
b)	From the following data obtain the two regression equations Sales:91 97 108 121 67 124 51 73 111 57 Purchases:71 75 69 97 70 91 39 61 80 47	05		3
	OR			
c)	Explain the types of correlation	05		3
Q.5	**SolveAny Two** *(Module 5)*	10		
a)	If 1 is added to the 2nd digit of each number and then positions of the first and last digits are interchanged, which of the following will be the highest number?Series: 567 289 376 189 852	05		4

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b) X and Y start from the same point X walks 40 m North, then turns West and walks 80 m, then turns to his right and walks 50 m. At the same time, Y walks 90 m North. Where is Y now with respect to the position of X? Draw the diagram — 05 — 4

c) If the positions of first digits of each number are replaced by its next number and last digits of each number are replaced by its previous number, how many numbers have minimum two same digits? — 05 — 4
Given Series: 567, 289, 376, 189, 852

(Optional 20 Marks)

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