Nan	ne]	Printed I	Pages:01	
Stu	dent Admn.	No.:	:						_					
							Ba			ol of Business mination, June 2023				
						[Pro	ogran	nme:	BBA]	[Semester: II] [Batch:]				
Cou	Course Title: Business Statistics											Max Marks: 100		
Cou	Course Code: BBAD1008											Time: 3 Hrs.		
Inst	ructions:		1.	All	que	stion	s are	сотрі	ılsory	·.				
			2.	As	sum	e mis.	sing a	lata sı	ıitabl <u></u>	y, if any.				
											K Level	COs	Marks	
SECTION-A (15 Marks) 5 Marks each											ch			
1.	Explain the	e mea	asur	e of	cent	ral te	ndenc	ey			K2	CO1	5	
2.	Consider the following data and calculate the standard deviation to two decimal places4, 25, -4, 11, 19, 4							К3	CO1	5				
3.	Define a t-t	test a	ınd e	expla	ain it	s pur	pose	in stat	istica	l analysis.	K2	CO4	5	
			ı	SEC	CTIC	N-B	(40 N	Marks	s)	10 Marks ea	ch			
4.	productivit Amount of Productivit Calculate the	y lev sleep y lev the Sp tivity	yel o p (ho yel (o pear	f a gours on a man el. In	roup): [7] scal rank nterp	o of 10, 6, 8, e of 1 c correct th	0 emp 5, 6, -10): relation	7, 5, 4 [8, 6, on coe	es. The $4, 8, 6$ $9, 4,$	etween the amount of sleep and the e data collected is as follows: [5] [7, 8, 5, 3, 9, 6] [nt between the amount of sleep and efficient in terms of the strength and	К3	CO3	10	
5.	In a bolt factor of their out the product machine A	tput 5	K4	CO2	10									
6.	Distinguish	ı vari	ious	sam	plin	g tecl	nniqu	es for	data d	collection with suitable examples.	K4	CO4	10	
	Examine th				_	_	_			-				
7.	Size		6	7	9	9	10	11 5	12		K4	CO1/ CO5	10	
									OR					
	Explain inc	lex n	uml	oers,	its ı	ise an	ıd pur	pose		suitable example				
							_	1 Iarks		15 Marks ea	ch	<u>I</u>	I	
8.		am sc hour	cores	s of a	a gro d: [5	oup of	f 20 st	tudent	as. The	tween the number of hours studied e data collected is as follows:	К3	CO3	15	

	Calculate the Karl Pearson correlation coefficient between the number of hours			
	studied and the exam scores. Interpret the correlation coefficient in terms of the			
	strength and direction of the relationship.			
	Discuss the advantage and disadvantage of following measure of dispersions:	K5		
9.	a) Range		CO1	15
7.	b) Mean Deviation			10
	c) Standard Deviation			
	Perform a simple linear regression analysis to estimate the exam scores based on the	K5		
10	number of hours studied. The data collected is as follows:			
	Number of hours studied: [4, 6, 3, 5, 7, 2]			
	Exam scores: [65, 70, 55, 68, 72, 60]		CO5	15
	OR			
	Discuss time series? Explain its components and characteristics. Also, compare the different types of trends observed in time series analysis.			
	unferent types of tienus observed in time series analysis.			