	TUTE OF NOLOGY				USN								118
TECH	TOLOGI]	Internal	Assess	ment 7	Γest - I					CMR
Sub:	BUSINE	SS ST	ATISTI(CS AND	ANAL	YTICS	5			Coe	de: 18	BMBA:	14
Date:	06-09-201	9	Dura	tion: 90	mins	Max M	[arks: :	50	Sem:	I Bra	nch: M	BA	
								<u> </u>					
												(OBE
											Marks	СО	RBT
	Part A -	Answei	r Any Tv	vo Full (Questio	ns (20 ³	02=40	Mark	s)				
1(a)	From the f	followi	ng data, f	ind the a	verage 1	narks s	secured	d by a st	tudent b	y the	[03]	CO1	L2
	appropriat				C			J		-			
	Roll No	1	2	3	4		5	6	7	8	1		
	Marks	65	80	100	102	10	08	110	112	113			
	Roll No	9	10	11	12		3	14	15				
	Marks	115	124	128	143	18	30	160	151		_		
(b)	In the Pun	iab Un	iversity t	here are	25 Profe	essors .	75 Re	aders a	nd 200	Lecturers	s. [07]	CO2	Ι.4
	Their mon	-	•			ĺ						002	2.
		•	C			ŕ							
	After 5 ye	ears it	is expect	ed that	each lec	turer v	will be	come a	reader	and eac	h		
	reader a p	orofesso	or. Assur	ning no	turnove	r of th	ese en	nployee	es find t	he exces	s		
	salaries th	at will l	be drawn	on an av	verage b	y these	emplo	yees af	fter 5 ye	ars			
(c)	From the f	followi	ng data d	etermine	the Val	ue of N	/Jedian	. 01. 0	02. O3		[10]	CO5	L2
	Class 11		-14 15-16		19-20	21-22	23-24	25-26	27-28	29-30	_ [,		
	Values Frequ	5 42	26 720	741	665	395	38	8	5	7	_		
	ency	7 42	20 /20	741	003	393	30	0	3	,			
2(a)	From the 1	followi	ng data, 1	ind the f	requenc	ies of t	he vari	ious val	ues of th	he	[03]	CO2	L2
	variable.		_				•						
		$\begin{bmatrix} 1 \\ 15 \end{bmatrix} \begin{bmatrix} 2 \\ 25 \end{bmatrix}$	$\begin{bmatrix} 3 \\ 30 \end{bmatrix}$	4 15	5	6 30	7 15	8 10	9 45	10			
		13 23 11 12		13	15	16	17	18	19	30			
		40 20		25	35	20	25	40	35	45			
		21 22		24	25	26	27	28	29	30			
(b)		25 35		15	30	10	40	45	15	10	[07]	CO2	L3
	Calculate data by all				and its c	0-61110	iem m	om me	IOHOWIII	ig set of	[07]	CO2	L3
	data oy un	the po	351010 1110	tilo do.									
	X:	12	10	19	8 11	. 5	15	23	9	8			
(c)	Find the m	niccina	frequenc	ies of the	e followi	ng cer	ies ift	he arith	metic a	verage is	[10]	CO2	L3
	39.5 and t					iig sci	ı.s, 11 t	ne antil	mictic a	verage is	[10]	CO2	LJ
	Marks:		0-10	10-20	20-30	30-4	40 40	0-50	50-60	60-70			
	F:		5	10	?	4	20	0	3	?			

3(a)	From the fo	llowing	data asce	ertain the	e average	e speed	in miles	ner hou	r of a	[05]	CO2	L3
	From the following data, ascertain the average speed in miles per hour of a scooter:					[[[]						
	Total distance covered= 200 miles.											
	60miles covered at a speed of 40 miles per hour.											
	40m	niles cov	ered at a s	speed of	30 mile	s per ho	ur.					
	50m	niles cov	ered at a s	speed of	60 mile	s per ho	ur.					
	45miles covered at a speed of 50 miles per hour.											
	10minutes running at a speed of 30 miles per hour.											
(b)	The mean of marks of bogirls in the	ys was î								[05]	CO1	L3
(c)	From the da methods	ata given	given below, locate the Value of the Mode by all possible [10] CO3 L3									
	Marks:	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45			
	No. of Students	5	6	15	10	5	4	2	2			
	Part B - C	Compuls	ory (01*1	10=10m	arks)							
4 (a)	Compute the method from					of Vari	ation by	all the	possible	[10]	CO5	L3
	Age:		50-60	40-50	30-40	20-3	30 1	0-20	0-10			
	No. of Employe	ees:	25	30	40	45		80	110			
									_			

	PO1	PO2	PO3	PO4	PO5	
CO1:	To make the students learn about the applications of statistical tools and techniques in decision making.	1.a,3b				
CO2:	To emphasize the need for statistics and decision models in solving business problems.	1b,2a,b, c,3a				
CO3:	To enhance the knowledge on descriptive and inferential statistics.	1c,3c				
CO4:	To familiarize the students with analytical package MS Excel.					
CO5:	To develop analytical skills in students in order to comprehend and practice data analysis at different levels.	1c,4a				

Cognitive level	KEYWORDS				
L1	list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where, etc.				
L2	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss				
L3	calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify				
L4	classify, outline, break down, categorize, analyze, diagram, illustrate, infer, select				
L5	grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate				
L6	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate				

PO1–Theoretical Knowledge; PO2–Effective Communication Skills; PO3–Leadership Qualities; PO4 –Sustained Research Orientation; PO5 –Self-Sustaining Entrepreneurship

CCI HOD