LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034												
B.B.A. DEGREE EXAMINATION – BUSINESS ADMINISTRATION												
٩ <u>با</u>	FIRST SEMESTER – APRIL 2018											
LUCEAT LUK	BC 1100- ELEMENTS OF STATISTICS											
Date: Time:	Date: 28-04-2018 Dept. No. Max. : 100 Marks Sime: 09:00-12:00 Max. : 100 Marks											
Section A												
Answer ALL the questions (10x2=20 Marks)												
1.Define Statistics.												
2. Defi	2. Define primary data with examples.											
3.What	t do you mean by	range?										
4. Wha	t do you mean by	frequen	cy distribution?									
5. Defii	5. Define correlation.											
6. Defii	6. Define Time series.											
7. Wha	t do you mean by	regressi	on?									
8. Defii	ne Tabulation.											
9. What is standard deviation?												
10. Define Skewness.												
				Section B								
Answer any FOUR questions (4x10=40Marks)												
11. State the functions of statistics.												
12. Explain the types of data.												
13. Draw a Lorenz curve from the following data												
	Salary (in Rs)	100	150	200	250	300						
	No. of workers	20	10	8	10	2						

14. Compute median from the following data.

Mid values	115	125	135	145	155	165	175	185	195
Frequency	6	25	48	72	116	60	38	22	3

Marks No. of students			10 8	20 12	30 20	40	50 7	60 3						
	0.11	1 . 6 1		12			,	1	•					
16. From the	followin	ig data find	out P	earson	's coe	efficie	nt of c	correlat	ion.					
Demand (kg	g) 28	34		41		57		52	68		62		75	
Price (Rs)	14	18		23		28	28		34	34			41	
17 Fit a stra	ioht line	trend by th	e met	hod of	least	sanar	e and	calcula	te the tre	nd va	dues f	rom tł	ne followin	
details of ann	ual turno	over(in the	ousand	tonne	s) of a	a car f	actory	/.						
Year	Year 2001 2002			200)3	20)04	20	2005		5	200	7	
Turn over	Turn over 70 75			90		91	91			98		100		
18. Explain	with exa	A mple the ru	nswer les reg	any T	S TWO	Section quest	n C ion (2 on of	2 x20=4 0 a table.) Marks)					
10 (a) From	the follo	r wing data	find o	ut usir	a em	nirical	form	ula						
		wing data,		ut usii.	ig enij	pinca					-			
C.I F	2	3-4 ·	<u>4-5</u> 27	5-	-6 5	6-	.7)	7-8	8-	8-9		9-10		
					-		<u> </u>					<u> </u>		
(b). Calculate	Harmon	nic mean of	f the fo	ollowii	ng dat	a								
Χ	10		20	2:		25			40		50			
F	20		30	50		50			15		5			
20. (a). Find	the quart	ile deviatio	on for	the fol	lowin	g deta	uils.							
Marks	Marke 0.10				20-30 30-40 40-50					50-60				
Frequenc	y 8		20		50	30) 12		5		5		
(b). The prod	uction of	f fertilizer l	oy a fi	rm as t	follow	/s:								
Year	1	2	3		4		5	6	7		8		9	
Production	4	5	5		6		7	8	9		8		10	
Calculate the	trend va	lues for thy	ve abo	ve seri	ies by	the fo	ollowi	ng metl	nods					
(i) 3-	vearly m	noving aver	age											
(ii) Le	east sous	re method	0											
(11) 20	ust squu	ire metriou.												
21. Obtain th	e lines of	f regression	n from	the fo	llowi	ng dat	a							
Х	X 4		5	5		6	6		8		11			
Y	-	12	1	0		8			7		5			
Verify that th	e coeffic	cient of cor	relatio	n is th	e geor	metric	e meai	n of the	two regre	essio	n coefi	ficient	ts.	