LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.B.A. DEGREE EXAMINATION – **BUSINESS ADMINISTRATION**

FIRST SEMESTER – NOVEMBER 2017

BC 1100 - ELEMENTS OF STATISTICS

Date: 07-11-2017 Dept. No. Max. : 100 Marks
Time: 01:00-04:00
Section A
Answer ALL the Questions
(10x2=20 Marks)

1. Define Statistics.

- 2. Give any two advantages of statistics.
- 3. What is Secondary data?
- 4. Define mean.
- 5. Define range.
- 6. What is Skewness?
- 7. Define Regression.
- 8. Write any two merits of correlation.
- 9. What do you mean by time series?
- 10. List out the methods of seasonal variation.

Answer any FOUR Questions

11. What are the importance and cope of statistics?-Explain

12. Calculate the Spearman's rank correlation coefficient from the following data.

Section B

Serial No.	1	2	3	4	5
Tamil	85	60	73	40	90
English	93	75	65	50	80

13. Briefly explain the methods of collecting data? And Explain.

14. Define Lorenz curve. And explain its steps.

15. Calculate Standard deviation for the following data.

Class	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
Interval (X)								
Frequency(F)	6	5	15	10	5	4	3	2

16. Fit a straight line trend for the following data by the method of least squares.

Year	2012	2013	2014	2015	2016	2017
Production	7	9	12	15	18	23

17. From the following series, find out the karlpearson's coefficient of skewness.

Measurement	11	12	13	14	15
Frequency	3	9	6	4	3

(4x10=40 Marks)

Sectio C

Answer any TWO Questions (2x20=40 Marks)

No.of 4 Students 18.b)The prod	-	20-30	30-4	0	40-50	5	0-60	60-7	70	70-80	0	80-90	
18.b)The prod		12	40		41	2	7	13		9		4	
					•			(10M	larks)				
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Production 4		5	5		6	7	8		9	8	3	10	
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Year		Summer			nsoon			Autumn			Winter		
2001		112			110			120			115		
2002		80			145			105		90			
2003		95			100			140			80		
2004		110			90			130			110		
2005			35		110			110		90			
2006	006 92		120	120		110	110		85				
c. b)]	From t	he followi	no data	a find	out nea	rson's	coeffici	ent of	corre	lation	(101	(arks)	
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20) Calculate		-						-					
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