

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.B.A. DEGREE EXAMINATION – BUSINESS ADMINISTRATION

SECOND SEMESTER – APRIL 2022

UBU 2502 – BUSINESS STATISTICS

(19 & 20 BATCHES)

Date: 18-06-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

PART – A

Q. No

Answer ALL questions

(10 * 2 = 20 Marks)

1. Define Statistics.
2. What is Primary data?
3. What is Quota Sampling?
4. List any two merits of mode.
5. What is called Mean Deviation?
6. Give any two uses of Correlation.
7. Give the meaning of Regression?
8. What is Time Series?
9. What is called cyclical Variation?
10. Secular trend: - Meaning.

PART – B

Answer any FOUR questions

(4 * 10 = 40 Marks)

11. Enlighten us on the scope of Statistics?
12. Compute the Harmonic mean for the following data:

x	10	12	14	16	18	20
f	5	18	20	10	6	1

13. Calculate the three Quartile for the following data

Series	3	6	9	12	15	18	21	24	27	30	33
--------	---	---	---	----	----	----	----	----	----	----	----

14. Calculate the Bowleys coefficient of Skewness

Number of Children Per family	0	1	2	3	4	5	6
Number of Families	7	10	16	25	18	11	8

15. List out the Merits and Demerits of the Scatter Diagram.

16. Calculate Rank Correlation for the following data:

Marks in Maths	85	60	73	40	90
Marks in Statistics	93	75	66	50	80

17. Fit a trend line to the following data by Freehand Method

Year	2011	2012	2013	2014	2015	2016	2017
Sales	65	95	85	115	110	120	130

PART – C

Answer any TWO questions

(2 * 20 = 40 Marks)

18. Determine the mean, mode, and the median from the following data

X	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
F	328	350	720	664	598	524	328	350	720	664

19. Calculate Karl Pearson's Coefficient of Skewness for the following data.

25	15	23	40	27	25	23	25	20
----	----	----	----	----	----	----	----	----

20. Calculate the correlation coefficient from the following data

X	3	5	6	7	9	12
F	20	14	12	10	9	7

21. Briefly explain the different components of the Time Series.
