



23145723

QP CODE: 23145723

Reg No :

Name :

**BBA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, DECEMBER 2023**

First Semester

Bachelor of Business Administration

Complementary Course - BA1CMT04 - FUNDAMENTALS OF BUSINESS STATISTICS

2017 Admission Onwards

45564D84

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is the role of statistics in business?
2. How is statistics misused?
3. Mention any two functions of tabulation.
4. What is a frequency polygon?
5. Give any two uses of average.
6. Point out some demerits of median.
7. Calculate standard deviation for the data. 20, 25, 35, 40, 15, 10.
8. Give any two uses of coefficient of variation.
9. What are the limits within which the correlation coefficient can vary?
10. What do you mean by rank correlation?
11. Explain free hand curve method for studying trend.
12. What is seasonal variation?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. State the two different meanings of the word "statistics".
14. Explain the importance of statistics in research.
15. Define secondary data, state the chief sources of collecting secondary data.
16. What are the objects of classification?
17. Explain weighted arithmetic mean with an example.
18. The data given below relates the price and demand of a commodity over a period.
Compute correlation coefficient between price and demand.

Price:	11	19	15	13	17
Demand	30	18	24	29	24

19. Explain the terms simple and multiple regression.
20. Discuss briefly the importance of time series analysis.
21. Apply the method of semi average for determining the trend. And obtain the trend values.

Year	Values
2001	12
2002	15
2003	20
2004	18
2005	25
2006	24
2007	28

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Show clearly the necessity and importance of diagrams in statistics. What precautions should be taken in drawing a good diagram?
23. (a) Explain how mode is obtained graphically?
(b) From the following data compute mode.

Class:	300-399	400-499	500-599	600-699	700-799	800 - 899	900 -999
Frequency:	14	46	58	76	68	62	48





24. The following table gives the relative value of two variables.

X	42	44	58	55	89	98	66
Y	56	49	53	58	65	76	58

Determine the two regression equations and also find the correlation coefficient.

25. The following are the annual profits in thousands of rupees in an industrial concern. Use the method of least squares to fit a straight line trend and also estimate the profit in 1980,

Year	Profits
1992	65
1993	77
1994	80
1995	70
1996	89
1997	95
1998	109
1999	102
2000	105

(2×15=30)

