



QP CODE: 24046198



24046198

Reg No :

Name :

**BBA DEGREE (CBCS) IMPROVEMENT/REAPPEARANCE/MERCY CHANCE
EXAMINATIONS, DECEMBER 2024**

First Semester

Bachelor of Business Administration

Complementary Course - BA1CMT04 - FUNDAMENTALS OF BUSINESS STATISTICS

2017 Admission Onwards

2964DAEE

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define statistics as a singular noun.
2. What is the role of statistics in research?
3. Which are the different types of classification?
4. Explain the term false base line.
5. What are the important measures of central tendency?
6. Write any four demerits of arithmetic mean.
7. What are the merits of mode?
8. What do you understand by measures of dispersion?
9. Explain the term positive correlation.
10. Explain the concept of regression.
11. Define Time series.
12. What are moving averages?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. How does statistics help in business management?





14. Discuss briefly the limitations of statistics.
15. What are the points to be considered before accepting secondary data?
16. What are the important functions of tabulation?
17. Compute coefficient of variation for the observations 7, 9, 10, 8, 6, 5.
18. The coefficient of rank correlation between marks in statistics and mathematics of certain students is 0.8. If the sum of squares of difference in ranks is given to be 33. Find the number of students in that group.
19. You are given the following data:
Correlation between x and y = 0.66

	x	y
Mean	36	85
sd	11	8

 - (a) Find the two regression equations.
 - (b) Estimate the value of x when y = 75.
20. Apply free hand curve method to estimate the trend values.

Year	Values	Year	Values
1997	25	2003	35
1998	28	2004	38
1999	20	2005	40
2000	30	2006	42
2001	25	2007	40
2002	32	2008	45
21. Explain the method of simple averages for obtaining indices of seasonal variations.

(6×5=30)

Part C

Answer any two questions.

Each question carries 15 marks.

22. What is a bar diagram? Explain the various types of bar diagram with example.
23. (a) Calculate median for the following values 61, 62, 63, 61, 63, 64, 64, 60, 65, 63, 64, 65, 66, 64.
(b) Calculate median for the following data of the distribution of rent paid by families in a city.

Monthly Rent in	: 20 - 40	40 - 60	60 - 80	80 - 100	100 - 120	120 - 140	140 - 160	160 - 180	180 - 200
Rs.									
No. Of families	: 6	9	11	14	20	15	10	8	7





24. Find Karl Pearson's correlation coefficient between age and playing habit of the following students.

Age:	15	16	17	18	19	20
Regular						
players:	200	150	90	48	30	16

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)

