

**BBA DEGREE (CBCS) EXAMINATION, DECEMBER 2018****First Semester**

Bachelor of Business Administration

Complementary Course - BA1CMT04 - FUNDAMENTALS OF BUSINESS STATISTICS

2017 Admission (Reappearance)

735AD212

Maximum Marks: 80**Time: 3 Hours****Part A**Answer any **ten** questions.Each question carries **2** marks.

1. Define statistics.
2. Give any 4 characteristics of statistics.
3. What is primary data.
4. Give any two uses of diagram.
5. Give any two uses of average.
6. Following are the monthly income of eight families in a locality. 700, 100, 500, 750, 130, 250, 80, 422, find out arithmetic mean of their income.
7. The following values shows the age of eight students. Find median age
Age: 18 16 14 11 13 10 9 20
8. Calculate mode of the series 10, 12, 14, 12, 15, 15, 16, 12, 8, 17.
9. State some merits of rank correlation.
10. Find b_{yx} , if $3x + 2y + 4 = 0$ is the regression line of y on x .
11. What do you mean by components of time series?
12. Explain semi average method.

(10×2=20)

Part BAnswer any **six** questions.Each question carries **5** marks.

13. Explain the importance of statistics in business management.
14. Write a short note on misuse of statistics.
15. Distinguish between tabulation and classification.
16. Which are the commonly used frequency graphs? explain any two of them.



17. Distinguish between absolute and relative measures of dispersion.
18. What are the limits within which the correlation coefficient can vary? What are your inferences when $r = +1$, -1 , and 0 .
19. Explain independent and dependent variable with example.
20. Explain trend. What are the various methods of studying trend?
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. Describe the classification methods based on attributes and class interval.
23. From the prices of the shares A and B given below, state which share has stable price.

A	20	22	17	23	26
B	10	20	18	12	15

24. Find the coefficient of correlation from the following data.

x:	10.5	10.9	10.2	10.1	10.9	9.9	9.8	9.6	9.3	9.2
y:	10.1	10.3	10	9.8	9.5	9.6	10.4	9.2	9.7	9.4

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)