

QP CODE: 19101004



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## 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.

- Define statistics.
- Give any 4 characteristics of statistics.
- What is primary data. 3.
- Give any two uses of diagram.
- Give any two uses of average.
- 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.
- The following values shows the age of eight students. Find median age

16 14 11 13 10

20

- Calculate mode of the series 10, 12, 14, 12, 15, 15, 16, 12, 8, 17.
- 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.

 $(10 \times 2 = 20)$ 

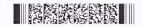
#### Part B

Answer 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.

 $(6 \times 5 = 30)$ 

#### 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.

Α	20	22	17	23	26
В	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

 $(2 \times 15 = 30)$ 

