

QP CODE: 22102133



Reg No :
Name :

**BBA DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS,
JULY 2022**

First Semester

Bachelor of Business Administration

Complementary Course - BA1CMT04 - FUNDAMENTALS OF BUSINESS STATISTICS

2017 Admission Onwards

54E96726

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 administration?
2. What do you mean by the term "misuse of statistics"?
3. What are the merits and demerits of sampling?
4. What is meant by classification according to class interval?
5. What do you mean by an average?
6. Write any four demerits of arithmetic mean.
7. What are the merits of median?
8. Define standard deviation.
9. Write the formula for rank correlation coefficient.
10. If $b_{yx} = 0,83$, sd of $x = 20$, sd of $y = 12$. Find correlation coefficient.
11. What are the merits of semi average method?
12. What do you mean by line of best fit?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Comment the following definition of statistics "statistics is the science of averages".
14. Describe the main functions of statistics.
15. What are the uses of diagrams?





16. What are the Special features of diagrams and graphs?
17. For a frequency distribution Median = 132.8, Mode = 141.3. Find the mean of the distribution.
18. What is meant by coefficient of determination and coefficient of correlation?
19. What are the properties of regression coefficients?
20. How is time series analysis useful for business forecasting?
21. 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

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. What are the chief functions of tabulation explain ? Indicate the precautions you would take in tabulation.
23. The scores of two batsman Sachin and Lara in ten innings during a certain season are given below.

Sachin	32	28	47	63	71	39	10	60	96	14
Lara	19	31	48	53	67	90	10	62	40	80

Find out which of the two batsman is more consistent in scoring.

24. What is scatter diagram? How it is constructed? What information about the data is conveyed by a scatter diagram?
25. Calculate the seasonal index from the following data using the simple average method.

Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1992	72	68	80	70
1993	76	70	82	74
1994	74	66	84	80
1995	76	74	84	78
1996	78	74	86	82

(2×15=30)

