

E 4343

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Reg. No.....

Name.....

B.B.A. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2016

First Semester

Complementary Course—FUNDAMENTALS OF BUSINESS STATISTICS

(2013 Admission onwards)

Time : Three Hours

Maximum Marks : 80

Part A

*Answer all questions.
Each question carries 1 mark.*

1. What do you mean by primary data ?
2. What is Pie chart ?
3. What is mode ?
4. Define Range.
5. Define Correlation.
6. What do you mean by Regression Line ?
7. What is long term trend ?
8. What is census method ?
9. What is quota sampling ?
10. What is harmonic mean ?

(10 × 1 = 10)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

11. Mention the characteristics of Statistics.
12. Differentiate questionnaires from schedules.
13. What are the features of an ideal classification ?
14. What is geometric mean ? State the steps for calculating geometric mean.
15. If the values of mean and median are 27 and 29 respectively, what would be the value of mode ?
16. What are the uses of standard deviation ?
17. Draw a histogram :

Class	:	0—10	10—20	20—30	30—40	40—50	50—60
Frequency	:	5	15	25	30	20	18

Turn over

18. Distinguish negative correlation from positive correlation.
19. State the Utility of Regression Analysis.
20. What are uses of Time Series Analysis ?
21. What do you mean by Scatter diagram ?
22. Distinguish between deviation from standard deviation.

(8 × 2 = 16)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. What is tabulation ? What are the essential parts of a statistical table ?
24. What is sampling ? What are the essentials of a good sample ?
25. What are the bases of classifications of data ?
26. What is median ? Discuss its merits and demerits.
27. Compute mean deviation from mean from the following :—

No. of children :	0	1	2	3	4	5	6
No. of families :	171	82	50	25	13	7	2

28. Explain the components of Time Series.
29. Calculate correlation coefficient for the following data :

X :	2	4	5	6	8	11
Y :	18	12	10	8	7	5

30. Compute the trend values by finding three-yearly moving averages for the following time series :

Year :	1990	1991	1992	1993	1994	1995	1996
Population (in millions) :	412	438	446	454	470	483	490

31. Compute quartile deviation and its coefficient from the following :—

Wages :	10	20	30	40	50	60	70
No. of workers :	4	7	15	8	7	2	6

(6 × 4 = 24)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Explain the meaning, scope, importance and limitations of Statistics.
33. Calculate the rank coefficient of correlation from the sales and expenses of 10 firms given below :

Sales (X) :	50	50	55	60	65	65	65	60	60	50
Expenses (Y) :	11	13	14	16	16	15	15	14	13	13

34. From the following data obtain the two regression equations. Also find the coefficient of correlation :

X : 60 62 65 70 72 48 53 73 65 82
Y : 68 60 62 80 85 40 52 62 60 81

35. From the following table of marks by two students Adith and Ananthakrishnan in tests of 100 marks each, find out who is more intelligent and who is more consistent :

Adith	:	25	50	45	30	70	42	36	48	34	60
Ananthakrishnan	:	10	70	50	20	95	55	42	60	48	80

(2 × 15 = 30)