



K15U 0556

Reg. No. : .....

Name : .....

I Semester B.B.A./B.B.A.R.T.M./B.B.A.T.T.M. Degree (CCSS – Reg./  
Supple./Improv.) Examination, November 2015  
Complementary Course  
1C01 B.B.A./B.B.A.(R.T.M.)/B.B.A. (T.T.M.)  
**BUSINESS STATISTICS**  
(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer the 4 questions. **Each** question carries  $\frac{1}{2}$  marks.

1. Define statistics as a method.
2. What is Tabulation ?
3. Explain class intervals.
4. What do you mean by two dimensional diagram ? (4x $\frac{1}{2}$ =2)

SECTION – B

Answer **any 4** questions. **Each** question carries 1 mark.

5. What is cartograms ?
6. Explain less than ogives.
7. Define a median.
8. Find out I<sup>st</sup> quartile from the following :  
X : 8, 10, 15, 7, 6, 14, 18
9. Find the value of coefficient of correlation from the following data :  
X : 50 40 30 20 10  
Y : 10 20 30 40 50
10. Find the value of mean if Median = 8 and Mode = 10. (4x1=4)

P.T.O.



## SECTION – C

Answer **any six** questions. **Each** question carries **3** marks.

11. Explain the features of a good measure of central tendency.
12. State the merits of Harmonic mean.
13. Distinguish between Mean Deviation and Standard Deviation.
14. What is Lepto Kurtic Curve ?
15. The Arithmetic mean of 25 observation was found to be 40. Later on it was discovered that a value was taken 25 instead of 52. Find the correct mean.
16. From the following obtain regression equation line of Advertisement expense on sales.

**Sales (in 000) :**                    91    53    45    76    89    95    80    65

**Advertisement expenses :** 15    8    7    12    17    25    20    13

Estimate the advertisement expenses for a sale of Rs. 1,20,000.

17. Find the coefficient of quartile deviation from the following data.

**Marks in statistics above mark :**    0    10    20    30    40    50    60    70    80

**No. of Students :**    150    140    100    80    80    70    30    14    0

18. Calculate mode from the following :

**Marks :**                    0 – 10    10 – 20    20 – 25    25 – 30    30 – 40    40 – 50

**Frequency :**                    8            12            5            9            12            10

**(6×3=18)**



SECTION – D

Answer **any two** questions. **Each** question carries **8** marks.

19. Define statistics as a data. Explain its features.

20. Find Harmonic Mean from the following :

<b>Class</b>	<b>f.</b>
5 – 10	2
10 – 15	9
15 – 20	29
20 – 25	54
25 – 30	11
30 – 35	5

21. Calculate trend by four-year moving average of the data given below :

<b>Year</b>	<b>Production</b>
2001	614
2002	615
2003	652
2004	678
2005	681
2006	655
2007	717
2008	719
2009	708
2010	779
2011	757

(2×8=16)

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