Reg. No. : ....

Name : ....

I Semester B.B.A./B.B.A. R.T.M./B.B.A. T.T.M. Degree (CCSS – Regular) Examination, November 2014
(2014 Admn.)
COMPLEMENTARY COURSE
1C01 BBA/BBA(RTM)/BBA(TTM) : Business Statistics

Time: 3 Hours   Max. Marks : 40

SECTION – A

Answer the 4 questions. **Each** question carries $1/2$ mark.

1. Define Statistics as a data.

2. What is classification ?

3. What do you mean by class limits ?

4. Explain one dimensional diagram. $(4 \times 1/2 = 2)$

SECTION – B

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

5. What is Pictograph ?

6. Explain cumulative frequency curve.

7. Define mode.

8. Find the value of median from the following :

   x :   5   8   14   7   12   20   18

9. Find the value of correlation from the following :

x :	1	2	3	4	5
y :	1	2	3	4	5

10. Find coefficient of mean deviation from the data given below :

    Mean deviation = 15.37 ; Median = 43.   (4×1=4)

SECTION – C

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

11. State the properties of Arithmetic mean.

12. Explain the merits and median.

13. What is coefficient of variation ? State its uses.

14. What is Meso Kurtic curve ?

15. Calculate quartile deviation from the following :

Marks	:	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
No. of Students :		5	8	13	7	7

16. From the following calculate regression equation of X on Y. Also calculate the value of X if the value of 'Y' is 30.

X :	8	7	10	9	6
Y :	15	18	17	21	14

17. Given below are the figures of sales ('000 rupees) of a certain shop.

Year :	2006	2007	2008	2009	2010	2011	2012
Sales :	125	128	133	135	140	141	143

    Fit a straight line trend by the method of least square, and find the trend values for each year.

18. Calculate standard deviation from the following :

x :	6	7	8	9	10	11	12
y :	3	6	9	13	8	5	4

    (6×3=18)

SECTION – D

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

19. Define Statistics as a method. State its characteristics.

20. The mean salary paid to two employees of an establishment was found to be Rs. 541.20. Later on, it was discovered that the salary of two employees was wrongly entered as Rs. 891 and Rs. 495. Their correct salary were Rs. 591 and Rs. 555. Find the correct Arithmetic mean.

21. Calculate Karl Pearson's coefficient of skewness from the following :

Variable	Frequency
70 – 80	11
60 – 70	12
50 – 60	30
40 – 50	35
30 – 40	21
20 – 30	11
10 – 20	6
0 – 10	5

(2×8=16)