Reg. No.: ....

Name: ....

I Semester B.Com. Degree (CCSS – Reg./Supple./Improv.) Examination, November 2016
Complementary Course
1C01 COM : BUSINESS STATISTICS
(2014 Admn. Onwards)

Time : 3 Hours   Total Marks : 40

PART – A

Answer **all** questions. **Each** carries ½ mark.

1. What is Deflating ?

2. Geometric mean of _____ values is defined on the nth _____ of their products.

3. "The law lays down that large samples are more stable in their characteristics than the small one". Name the law.

4. Population in statistics mean the _____ in a investigation.   (4×½=2)

PART – B

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

5. What is inferential statistics ?

6. What are the two broad categories of statistical investigation ?

7. What do you mean by Direct personal observation ?

8. Define dispersion.

9. Write the formulae of standard deviation of the combined series.

10. The following figures represent the number of books issued at the counter of a commerce library in 11 different days. Calculate the median :

    96, 180, 98, 75, 270, 20, 102, 100, 94, 75, 200   (4×1=4)

PART – C

Answer **any six** questions. (**Not** exceeding **one** page.) **Each** carries **3** marks.

11. Examine critically the important stages in origin of statistics.

12. Explain clearly the limitations of statistics.

13. What are the various methods of collecting primary data ? Give examples of each with relative merits and demerits.

14. What is statistical series ? Explain different types of series.

15. Out of the total population of certain town in South Africa, 60 % belonged to the black race and the rest belonged to the white race. It was estimated that their mean incomes were respectively 2,000 and 5,000 pounds. Find the average income of the entire town.

16. Calculate the mean deviation from the following data :

Size of item	:	6	7	8	9	10	11	12
Frequency	:	3	6	9	13	8	5	4

17. In a certain distribution the following results were obtained :

    $\overline{X} = 45.00$; Median = 48.00

    Coefficient of skewness = .4

    You are required to estimate the value of standard deviation.

18. Compute the index number of price by an appropriate method.

	Base year		Current Year	
Commodity	Price	Total value	Price	Total value
A	40 units	240 units	30 units	210 units
B	45 units	180 units	50 units	250 units
C	90 units	45 units	40 units	60 units

    (6×3=18)

PART – D

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

19. What is a statistical table ? Explain its objects, parts and importance in a general scheme of any statistical inquiry.

20. Calculate the number of shops corresponding to class-interval 30-40 of the following distribution.

Profit per shop :	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
No. of shops :	12	18	27	?	17	6

The mean profit per shop is 28.

21. In a frequency distribution the coefficient of skewness based upon quartiles is 0.6. If its sum of upper and lower quartiles is 100 and median is 38, find the values of upper and lower quartiles. (2×8=16)