



M 11532

Reg. No. :

Name :

I Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W. Degree
(CCSS – Reg./Supple./Improv.) Examination, November 2011
Complementary Course for Commerce Core
1C01 COM : BUSINESS STATISTICS

Time : 3 Hours

Weightage : 30

PART – A

This Part consist of **two** bunches of questions carrying **equal** weightage of **one**. **Each** bunch consist of **four** objective type questions. Answer **all** questions.

I. Fill in the blanks :

- 1) Data originally collected in the process of investigation are known as _____ data.
- 2) Median is the _____ value of the series.
- 3) SD is the positive square root of the mean of the squares of deviations of items from their mean.
- 4) Fisher's index number satisfies Time Reversal and _____ Tests.

- (II.) 5) Diagrammatic presentation of data is known as
- | | |
|-----------------|------------------|
| a) Collection | b) Organisation |
| c) Presentation | d) None of these |
- 6) The index number of the base year is always
- | | |
|------------|------------------|
| a) special | b) normal |
| c) 100 | d) none of these |
- 7) The measurement based on all values of the series is
- | | |
|-----------------------|-----------------------|
| a) Range | b) Standard deviation |
| c) Quartile deviation | d) All the above |

P.T.O.



- 8) The mode is
- Observation with highest frequency
 - Highest observation
 - Highest frequency
 - None of the above

(Wt. 2×1=2)

PART – B

Answer **any 8** questions in **one** or **two** sentences **each**. **Each** question carries a weightage of **one**.

- What is sample ?
- Define classification of data.
- What is median ?
- What is dispersion ?
- What is the concept of skewness ?
- Why Fisher's index is said to be ideal ?
- Give any three advantages of diagrammatic presentation.
- What is Kurtosis ? What are its different kinds ?
- State the name of two diagrams used in statistics.
- Define statistics.

(Wt. 8×1=8)

PART – C

Answer **any 6** questions. Answer **not** to exceed **one** page. **Each** question carries a weightage of **two**.

- Distinguish between census and sample method.
- Define mean and write its merits.
- What is co-efficient of variation ? Which purpose does it serves ?
- What are the qualities of good Questionnaire ?



23. Calculate mode from the following frequency distribution :

Mid points : 1 2 3 4 5 6

Frequency : 2 4 10 8 5 3

24. A frequency distribution consist of three components with total frequencies 50, 60 and 90 having means of 12, 15 and 20 respectively. Find out combined mean.

25. If co-efficient of skewness = -0.4 , mean = 45 and median = 48. Find standard deviation and co-efficient of standard deviation.

26. Find the Harmonic mean from the following :

5, 10, 15, 20, 25.

(Wt. $6 \times 2 = 12$)

PART – D

Answer **any two**. **Each** question carries a weightage of **four**.

27. From the prices of shares of A company and B Co. given below, state which is more stable in value :

A : 55 54 52 53 56 58 52 50 51 49

B : 108 107 105 105 106 107 104 103 104 101

28. From the following data find out price index number by Fisher's ideal index number :

Commodity	2000		2005	
	Price	Qty.	Price	Qty.
A	12	100	20	120
B	4	200	4	240
C	8	120	12	150
D	20	60	24	50

29. What are the various methods of collecting statistical data (primary) ? Which of these is most reliable and why ?
(Wt. $2 \times 4 = 8$)
