

M 7737

Reg. No. :

Name :

I Semester B.Com. Degree (CCSS – Supple./Improv.) Examination, November 2014 (2012 and 13 Admn.) COMPLEMENTARY COURSE IN COMMERCE 1C01 COM : Business Statistics

Time : 3 Hours

Max. Weightage: 30

PART-A

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

I. 1) The interview of the line of the lin	ernational records	ofacom	pany's sales.	production etc. i	s
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- a) Primary b) Secondary
- c) Census d) Sample
- 2) Which of the following is a discrete variable ?
 - a) Height b) Weight
 - c) Time d) Number of persons in a family

3) _____ diagram is a circle broken down into component factors.

a) Pie

c) Histogram

d) Cartogram

b) Bar log versues is to near new op land the

Why secondary data is preferable to primary data ?

- 4) The Geometric mean of 8 and 18 is _____
 - a) 10 certainty above been allo b) 12 concerned an ended and much entry at
 - c) 13 d) 15
- II. 5) Mean deviation is least when deviation are taken from _
 - a) Mean

b) Mode and one paigment at the set of the s

c) Median

d) Geometric mean

(W=1)

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c) 1

- 6) For a mesokurtic curve the value of B₂ is
 - a) 3
 - d) –1
- 7) The change of reference base period of an index number from one time period to another without returning to the original raw data is _____

b) 0

- a) Splicing b) Base shifting
 - c) Deflating d) Weighting
- 8) Errors due to non-response in collection of data is known as ____
 - a) Sampling b) Non-sampling
 - c) Pilot survey

d) Size

(W=1)

PART-B

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

- 9. What are the uses of standard deviation?
- 10. Calculate the variance of first 20 natural numbers.
- 11. One man spends Rs.100 for apples costing Rs.100 per kilogram and another Rs.100 for apples costing Rs.8 per kilogram. What is the average cost?
- 12. Write about base shifting of index numbers.
- 13. What do you mean by a frequency polygon?
- 14. Explain the merits of median.
- 15. Write down the relationship between mean, median and mode. What happens if the distribution is symmetric ?
- 16. Define Kurtosis.
- 17. Differentiate sampling and census.
- 18. Why secondary data is preferable to primary data?

 $(W=8\times1=8)$

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Answer any six questions. Answer not to exceed one page each. Each carries a weightage of two.

- 19. Explain the classification of a statistical data.
- 20. What is a random sample ? How do you select a random sample from a finite population ?
- 21. What are the properties of a good average ?
- 22. How standard deviation is considered as the most reliable measure of dispersion ?
- 23. Find mean deviation about median.

Size	10	11	12	13	14
Frequency	5	12	18	10	3

24. Calculate the quartile coefficient of skewness :

x	5	10	15	20	25	30	35
f	2	8	22	34	16	10	8

- 25. What is Fisher's ideal index ? Why is it called ideal ?
- 26. Explain the steps involved in the construction of general index number? (W=6×2=12)

PART-D

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

27. From the chain base index numbers given below, prepare fixed base index numbers.

Year	2005	2006	2007	2008	2009	2010	
Index No.	92	102	104	98	193	101	

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28. Statistical methods are most dangerous tools in the hands of an inexpert. Examine this statement. How are statistical methods helpful in business ?

-4-

29. Calculate standard deviation and coefficient of variation for the following frequency distribution.

										36-40	
Frequency	:	11	13	16	14	14	9	ed fass	0	4 (W=2×4=8)	

2. How atendard deviation is considered as \$6 most reliable measure of dispersion ?