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Reg. No. : .....

Name : .....

Fourth Semester B.Com. Degree Examination, June 2020

First Degree Programme Under CBCSS

Complementary Course : CO 1431/CX 1431/CC 1431

BUSINESS STATISTICS

(Common for Commerce/Commerce and Tax Procedure and Practice/ Commerce with Computer Application)

(2014 – 2017 Admission)

Time : 3 Hours Max. Marks : 80

SECTION – A

Answer **all** questions in **one** or **two** sentences **each**. **Each** question carries **1** mark.

1. Describe 'distrust of statistics'.
2. What is mean by meso kurtic?
3. What is probable error?
4. Describe simple linear regression.
5. When Spearman's rank correlation method is used?
6. What is mean by concurrent deviation?
7. Describe factor reversal test.
8. What is mean by inflation index?

9. How will you construct simple aggregative index numbers?

10. Describe time series analysis.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** questions. **Each** question carries **2** marks.

11. What is mean by business statistics?

12. What are measures of central tendency?

13. Compare correlation and causation.

14. In which situation moving average method of analysis is used?

15. Explain the importance of chain base index numbers.

16. Describe the properties of' correlation co-efficients.

17. What are the methods of studying dispersion?

18. Describe Dissimilarities of regression and correlation.

19. What are the features of index numbers?

20. How will you compute median under continuous series?

21. What is mean by weighted arithmetic mean?

22. What is mean by grouping table?

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. **Each** question carries **4** marks.

23. Explain cumulative frequency curves or orgives.

24. Explain the procedure of computing geometric mean.

25. What are the objectives of measuring dispersion?

26. Calculate range and co-efficient of range from the following distribution :

Income:	below 10	10-20	20-30	30-40	above 40
Frequency :	7	8	15	7	3

27. Distinguish between absolute measure of dispersion and relative measure of dispersion.

28. If the co-variance between *X* and *Y is* 488 and variance of *X* and Y are 824 and 325 respectively, find out co-efficient of correlation.

29. Explain different types of index numbers.

30. Compare cost of living and consumer price index numbers.

31. Explain the utilities of interpolation techniques.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. **Each** carries **15** marks.

32. Describe the uses of index numbers. What are the problems in construction of index numbers?

33. From the following prepare quantity index number of Laspeyer's Passche's, Bowley and Dorbish.

Commodities	Price		Value	
	2014	2015	2014	2015
A	7	8	49	72
B	4	6	40	72
C	6	8	90	160
D	5	7	25	21

34. From the following observations find the extend of correlation between age and crime by using direct method based on deviation.

Age :	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Persons in lakhs :	80	60	50	40	30	25	20	15	10	5
No.of crimes in lakhs :	50	45	40	35	30	20	15	10.5	8	3

35. Calculate standard deviation and co-efficient of variation from the following :

Age :	under 10	"20	"30	"40	"50	"60	"70	"80
No.of person dying :	15	30	53	75	100	110	115	125

(2 × 15 = 30 Marks)