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Reg. No. : .....

Name : .....

B.Com-159

Fourth Semester B.Com. Degree Examination, July 2024

First Degree Programme under CBCSS

Complementary Course :

CO 1431/CX 1431/CC 1431/HM 1431 : BUSINESS STATISTICS

(Common for Commerce/Commerce & Tax Procedure and Practice/Commerce with Computer Application/Commerce & Hotel Management and Catering)

(2018 Admission onwards)

Time : 3 Hours Max. Marks : 80

PART – A

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

1. What is primary data?
2. Define Median.
3. State two functions of statistics.
4. What is price index number?
5. What is linear regression?
6. What are quartiles?

P.T.O.

7. What is extrapolation?

8. What do you mean by source note?

9. What do you mean by time series?

10. What is classification of data?

(10 × 1 = 10 Marks)

PART – B

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

11. What is snowball sampling?

12. What is Mean Deviation?

13. What is partial correlation?

14. What is non sampling error?

15. What do you mean by editing of data?

16. What does Coefficient of Variation denote?

17. What is chain base index number?

18. Explain the terms sensex and Nifty.

19. State two objectives of measuring dispersion.

20. Write any two limitations of sampling.

21. What do you mean by base year and current year?

22. Define Geometric Mean.

(8 × 2 = 16 Marks)

PART – C

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

23. State the differences between a questionnaire and a schedule.

24. What are the components of a time series?

25. State the uses of index numbers.

26. Calculate Mean deviation from median and its coefficient from the following data.

Weight (kg) :	60	61	62	63	65	70	75	80
No of workers :	1	3	5	7	10	3	1	1

27. Construct index number of prices from the following data using Fisher's method.

Items	Base year		Current year	
	Price	Quantity	Price	Quantity
A	5	3	7	4
B	8	7	12	5
C	15	6	20	4
D	6	3	8	4

28. Define regression. State the various methods of measuring regression.

29. What are the characteristics of a good sample?

30. Explain the law of Inertia of Large Numbers.

31. Calculate Karl Pearson's co-efficient of correlation from the following data.

Age :	40	21	25	31	38	47
Weight :	78	70	60	55	80	66

(6 × 4 = 24 Marks)

PART – D

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

32. Define statistics. Explain the distrust of statistics and state how it can be misused.

33. The scores of two batsmen Ram and Shyam in ten matches during a certain IPL match season are as follows :

Ram :	32	28	47	63	71	39	10	60	96	14
Shyam :	19	31	48	53	67	90	10	62	40	80

Find out who is a better run getter? Which batsman is more consistent?

34. Fit a straight line trend by the method of least squares from the following data and compute the trend values.

Year	2000	2001	2002	2003	2004
Sales (Rs. in lakhs)	65	95	80	115	105

35. What is data collection? Explain the various methods of data collection.

(2 × 15 = 30 Marks)