(Pages : 4)

N - 7907

Reg. No.	:	
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# Fourth Semester B.Com. Degree Examination, August 2022 First Degree Programme Under CBCSS

**Complementary Course** 

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

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

(2019 Admission Onwards)

Time: 3 Hours

Max. Marks: 80

## SECTION - A

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

- 1. What is statistics?
- 2. Write any two features of statistics
- 3. What is data?
- 4. What is Census method?
- 5. What is correlation?
- 6. What is range?
- 7. What is time series?
- 8. What is regression analysis?

P.T.O.

- 9. What is price index?
- 10. What is a sample point?

 $(10 \times 1 = 10 \text{ Marks})$ 

### SECTION - B

Answer any eight questions in not exceeding one paragraph each. Each question carries 2 marks.

- 11. What is primary data?
- 12. What is the use of measures of dispersion?
- 13. Write any two limitations of sampling.
- 14. What is classification of data?
- 15. Write the formula to find out standard deviation,
- 16. What is moving average?
- 17. Write any four uses of statistics
- 18. Explain the terms Sensex and nifty
- 19. What is a regression line?
- 20. What is wholesale Price index number?
- 21. Write a note on cost of living index.
- 22. What is class limit?
- 23. What is questionnaire?
- 24. What is random sampling?
- 25. What is positive correlation and negative correlation?
- 26. What is non sampling error?

 $(8 \times 2 = 16 \text{ Marks})$ 

N - 7907

### SECTION - C

Answer any six questions in not exceeding 120 words each. Each question carries 4 marks.

- 27. Write the features of statistical methods.
- 28. Explain the importance of data.
- 29. What are the prerequisites of sampling?
- 30. What are the important non probability sampling methods?
- 31. What are the objectives of classification of data?
- 32. Explain the objects and importance of tabulation.
- 33. What are the types of dispersion? Explain.
- 34. What are the uses of index numbers?
- 35. The following table gives the proportion of married women in India under various ages. Represent the data by bar diagram.

Age: 16 18 20 22 24 Married women in %: 9 12 34.2 52.3 72.4

36. From the following data calculate standard deviation.

Marks: 24 28 32 36 40 44 48 No. of students: 12 24 36 52 32 20 16

37. Compute mean deviation from mean and also calculate coefficient of mean deviation.

Marks: 18, 20, 25, 28, 29, 28, 33, 38, 41, 40

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38. From the following data, construct a simple aggregative price index.

modities	Price in 2010	Price in 2018
Α	25	28
В	30	33
C h	6.50	8.00
D	14.00	19.00
E	21.00	21.00

 $(6 \times 4 = 24 \text{ Marks})$ 

N - 7907

# SECTION - D

Answer any two questions in not exceeding four pages each. Each question carries 15 marks.

- 39. Define statistics. Explain its importance and functions.
- 40. What is time series analysis? Explain its components.
- 41. Explain (a) Correlation analysis and its importance (b) Regression analysis. What are the differences between correlation and regression?
- 42. From the prices of shares of P and Q, you are required to find out which is more stable in value.

P: 30 49 47 48 51 53 46 45 47 44 Q: 103 102 100 100 101 102 99 98 99 96

43. Construct index number by using Fisher's ideal formula and prove that it satisfies both the time reversal and factor reversal test.

ommodity	Base	year	r Current year		
	Quantity	Prices	Quantity	Prices	
Р	12	10	15	12	
Q	15	7	20	5	
R	24	5	20	9	
S	5	16	5	14	

44. The following tables gives age (X) in years of cars and annual maintenance cost Y (in hundred rupees)

X 1 3 5 7 9 Y 15 18 21 23 22

Estimate the maintenance cost for a 4 year old car after finding the regression equations.

 $(2 \times 15 = 30 \text{ Marks})$