

TB243132U

Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024
2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
SEMESTER III - CORE COURSE (COMMERCE
CO3B08B18 - Quantitative Techniques for Business I

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Explain the Distrust of statistics.
2. Mention the essential requisites of a good statistical unit.
3. Explain the terms population and sample.
4. Describe the term statistical investigation.
5. Describe the term combined mean.
6. Find out the value of mean when it median is 16 and mode is 14.
7. Given Mean = 56.2, Mode = 55, Find Median.
8. Explain Kurtosis and its curves.
9. Calculate Range and Coefficient of Range from the following data

Marks	10	20	30	40	50	60	70
No. of students	7	8	10	15	12	6	4

10. Seven students obtained the following marks in statistics: 20, 35, 25, 15, 30, 50, 60 Calculate Range and Coefficient of Range.
11. Explain the conditions to be fulfilled while applying Binomial Expansion Method of Interpolation.
12. Point out some utilities of interpolation technique.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain the role of Statistics in Business and Commerce.
14. Explain the term Tabulation. Mention the essential parts of a Table.
15. Explain the criteria for choosing sampling or census method.
16. Explain the characteristics of a good sample.
17. Find the Harmonic Mean from the following data:

X	2	3	4	5	6	7
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18. Find the missing frequency if arithmetic mean is 28.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	12	18	27	?	17	6

19. Find standard deviation and coefficient of variation from the following:

Marks	2	3	4	5	6	7	8
No. of students	1	2	3	5	3	2	1

20. Calculate standard deviation from the data given below:

x	3	4	5	6	7	8	9
f	7	8	10	12	4	3	2



21. Distinguish the difference between Interpolation and Extrapolation and mention 3 limitations

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the term Statistics, explain the two senses, and distinguish between statistical data and statistical methods.

23. Explain the characteristics of sampling. Discuss the merits and demerits of sampling.

24. From the following data calculate Median , Quartiles and the percentatge of workers getting wages:

(i) More than Rs. 44

(ii) Between Rs. 22 and Rs. 58

(iii) Less than Rs. 44

Wages (Rs)	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Workers	20	45	85	160	70	55	35	30

25. Goals scored by two teams in an ISL football season were as follows:

No. of Goals scored	0	1	2	3	4
No. of Matches by Team A	27	9	8	5	4
No. of Matches by Team B	17	9	6	5	3

By calculating the coefficient of variation in each case, find which team is considered more consistent.

