

**B. Com. DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022**

(2021 Admissions Regular, 2020 Admissions Supplementary/Improvement, 2019 &amp; 2018 Admissions Supplementary)

**SEMESTER III - CORE COURSE (COMMERCE)**

(for B.Com Finance &amp; Taxation and Capital Market)

**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 Inferential and Induced Statistics.
2. Explain statistical units.
3. Explain absolute error and relative error.
4. Explain Law of statistical regularity.
5. Define Median.
6. Find mode from the following data

8	9	10	12	14	16	18	26	16	20	16	11	12	16	15	20	16
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7. Given Mean = 56.2, Mode = 55, Find Median.
8. Define Mean Deviation.
9. Find mode and coefficient of variation if mean = 65 and median = 70.
10. From the following data give calculate coefficient of variation  
 $J_p = 0.42$ ; Mean = 86; Median = 80
11. What are the merits of graphic method of interpolation?
12. State Newton's Method of Advancing differences as an Interpolation technique.

**Part B****II. Answer any Six questions. Each question carries 5 marks****(6x5=30)**

13. Discuss the limitations of Statistics.
14. Explain the term Tabulation. Mention the essential parts of a Table.
15. Define Secondary data. State the points to be considered while editing secondary data.
16. Define editing of data. Mention the points to be considered while editing primary data.
17. Find the Harmonic Mean from the following data:

X	2	3	4	5	6	7
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18. There were 500 workers in a factory. Their mean wages was calculated as Rs. 200. Later on it was discovered that the wages of two workers were misread as 180 and 20 instead of 80 and 220. Find the correct mean.
19. Calculate Quartile Deviation and its coefficient from the following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Students	11	18	25	28	30	33	22	15	22

20. Calculate the first four central moments and apply the Beta measure of skewness: 2,4,6,8,10.
21. Explain the terms interpolation and extrapolation.

**Part C**

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

**(2x15=30)**

22. Explain term statistics and explain the scope of statistics.
23. What is Sampling? What are the different methods for selecting samples? Explain.
24. From the following data calculate Median, Quartiles, D4 and P60

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of students	13	17	50	60	55	45	23	7

25. The prices of shares X and Y are given below:

Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
X (Rs.)	105	120	115	118	130	127	109	110	104	112
Y (Rs.)	108	117	120	130	100	125	125	120	110	135

State which share is more stable in value. Also state which share is more speculative.