SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.
B.B.A. - END SEMESTER EXAMINATIONS APRIL - 2024
SEMESTER - III
20UBACT3007 - Business Statistics - I

Total Duration : 2 Hrs. 30 Mins. Total Marks : 60

Section B

Answer any **SIX** questions $(6 \times 5 = 30$ Marks)

1. Explain the Limitation of Statistics.
2. Calculate the median for the following frequency distribution.

Marks	No. of students
45-50	10
40-45	15
35-40	26
30-35	30
25-30	42
25-25	31
15-20	24
10-15	15
5-10	7

3. Compute coefficient of quartile deviation from the following data:

Markes	Frequency
10	4
20	7
30	15
40	8
50	7
60	2

4. Calculate Karl Pearson's coefficient of correlation from the following data and two series. The covariance of two series X and Y is written as:

Roll no. of students	Marks in Accountancy	Marks in Statistics
1	48	45
2	35	20
3	17	40
4	23	25
5	47	45

Contd...

5. Describe the types of classification.

6. Solve the geometric mean from the following data.

125	1462	38	7	0.22	0.08	12.75	0.5

7. Apply Bowley's coefficient of skewness for the following frequency distribution.

No. of children per family	**No. of family**
0	7
1	10
2	16
3	25
4	18
5	11
6	8

8. Calculate the regression equation taking deviation of items from the mean of X and Y series.

X	6	2	10	4	8
Y	9	11	5	8	7

Section C

Answer any **THREE** questions $(3 \times 10 = 30$ Marks)

9. Describe the importance of Statistics.

10. Classify the methods of collecting primary data.

11. Calculate arithmetic mean, median, and mode from the following frequency distribution.

Variable	**Frequency**
10-13	8
13-16	15
16-19	27
19-22	51
22-25	75
25-28	54
28-31	36
31-34	18
34-37	9
37-40	7

12. Calculate mean and standard deviation of following frequency distribution of marks.

Marks	**No. of students**
0-10	5
10-20	12
20-30	30
30-40	45
40-50	50
50-60	37
60-70	21

13. The competitors in a beauty contest are ranked by three judges in the following order:

1^{st} judge	**2^{nd} judge**	**3^{rd} judge**
1	3	6
6	5	4
5	8	9
10	4	8
3	7	1
2	10	2
4	2	3
9	1	10
7	6	5
8	9	7

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