

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 - NOV'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 Scope of Statistics.
2. Form a discrete frequency table from the following values are given below.
11,12,12,11,13,14,11,10,15,12,11,15,12,13,15,10,11,14,15,14,12,13,12

3. Use direct method to find out Arithmetic mean.

Income	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
No. of persons	4	7	16	20	15	8

4. Calculate co-efficient of quartile deviation and co-efficient of variation from the following data :

Marks	Below 10	Below 20	Below 30	Below 40	Below 50
No. of students	4	18	48	68	78

5. Calculate coefficient of correlation and check whether it is significant.

X	22	24	38	35	69	78	46
Y	66	59	63	68	75	86	68

6. Describe the Uses of Statistics.

7. Calculate Harmonic mean from the data given below:

Class	15-25	25-35	35-45	45-55	55-65	65-75
Frequency	4	11	19	14	0	2

8. In a correlation analysis between production and price of a commodity, the following constants were obtained :

	Production (X)	Price (Y)
Mean	110	98
Standard deviation	12	5

$r = 0.4$ (cor. coefficient)

Write down the two regression equations. Find Y when $X = 116$.

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Section C

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

9. Describe the functions and limitations of statistics.
10. What are the various methods of classifying data?
11. Calculate mean, median and mode from the following data.

Wages	0-10	10-20	20-30	30-40	40-50	50-60
No. of Workers	12	17	23	39	16	3

12. Calculate Karl Pearson's Coefficient of Skewness from the following data :

Age in years	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
No. of persons	18	20	30	22	10

13. Calculate the Rank correlation co-efficient for the following data:

X	80	78	75	75	68	67	60	59
Y	12	13	14	14	14	16	15	17
