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.Com. CS - END SEMESTER EXAMINATIONS - NOV'2024
SEMESTER - II
23UBCAT2002 - Business Statistics

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

Section B

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

1. 120 students of a college were asked to opt for different work experiences. The details of these options are as under:

Areas of work experience	No. of Students
Photography	6
Clay modelling	30
Kitchen gardening	48
Doll making	12
Book binding	24

Represent the above data through a pie diagram.

2. Draw histogram for the following frequency distribution:

Wages (in Rs.)	50-59	60-69	70-79	80-89	90-99
No. of Employees	8	10	16	14	10

3. Find the mean and median for the following figures: 30, 41, 47, 54, 23, 34, 37, 51, 53, 47.

4. Differentiate between mode and median with suitable examples.

5. Marks obtained by 12 students in the recently concluded examination is as follows:
52, 13, 35, 46, 89, 10, 29, 95, 66, 72, 48, 71.
Calculate range and coefficient of range.

6. List out the absolute measures of dispersions and relative measures of dispersions.

7. Bring out the different types of correlation and give examples in each type.

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8. What are the components of time series? Enlist.

Section C

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

9. Prepare a statistical table from the following information of Daily Earnings (in Rs.) by Doctors:

88	23	27	28	86	96	94	93	86	99
82	24	24	55	88	99	55	86	82	36
96	39	26	54	87	100	56	84	83	46
102	48	27	26	29	100	59	83	84	48
104	46	30	29	40	101	60	89	46	49
106	33	36	30	40	103	70	90	49	50
104	36	37	40	40	106	72	94	50	60
24	39	49	46	66	107	76	96	46	67
26	78	50	44	43	46	79	99	36	68
29	67	56	99	93	48	80	102	32	51

10. Use direct method to find the arithmetic mean for the following data:

Income (in Rs.'000)	No. of Persons
10-20	4
20-30	7
30-40	16
40-50	20
50-60	15
60-70	8

11. Calculate standard deviation from the following set of observations: 8, 9, 15, 23, 5, 11, 19, 8, 10, 12.

12. The ranks of students in Hindi and Economics are given:

Hindi	6	1	5	2	4	3
Economics	3	1	4	2	5	6

Calculate rank correlation.

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13. Sales figures (in Lakhs) of a business unit are as follows:

Year	1	2	3	4	5	6	7	8
Sales	11	9	14	9	10	10	8	12

Compute 4 years moving average for all the years and identify the average sales for the sixth year of business.

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