Roll.No. | 25UAFGT1A01

SET II

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. A&F - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I
25UAFGT1A01 - Business Statistics

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

Section B

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

1. Explain the term 'Pie – chart with suitable example.
2. Describe the meaning of Mean Deviation.
3. Compute regression equation of y on x.

x	1	2	3	4	5	8	10
y	9	8	10	12	14	16	15

4. The sales of a commodity in tonnes varied from January 1979 to December 1979 as follows:- 280, 300, 280, 280, 270, 240, 230, 230, 220, 200, 210, 200
   Compute using the method of semi – average.
5. A perfect die is tossed twice. Find the probability of getting a total of 9.
6. Represent the following data by using a simple bar diagram

Year	**Production (In tonnes)**
1974	45
1975	40
1976	44
1977	41
1978	49

7. Compute the median of the set of observation from the following data: 27,36,28,18,35,26,20,35,40,26.
8. Three coins are tossed. Ascertain the probability of getting atleast one head.

Section C

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

9. Explain briefly about diagrammatic representation of data with suitable example.

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10. Compute the mean deviation about the mean for the following frequency distribution.

Maths	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of students	3	8	9	15	20	13	8	4

11. Determine the coefficient of correlation for the following data:

x	65	66	67	67	69	70	72
y	67	68	65	68	72	69	71

12. Compute the seasonal indices from the following data using the average method.

Year	**1**st **Quarter**	**2**nd **Quarter**	**3**rd **Quarter**	**4**th **Quarter**
1974	72	68	80	70
1975	76	70	82	74
1976	74	66	84	80
1977	76	74	84	78
1978	78	74	86	82

13. A bag contains 4 white and 6 black balls. Two balls are drawn at random. What is the probability that (a) both are white, (b) both are black, (c) one white and one black?

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