

BHARATI VIDYAPEETH
(Deemed to be University), Pune (India)
School of Distance Education
Subject:- Business Mathematics and Business Statistics-II

Assignment No:- 1

Q.1. Attempt **Any One** of the following.

10Marks

a) i) Obtain the range and coefficient of range for the following:

62, 66, 27, 32, 72, 66, 76, 36, 26.

ii) Calculate the standard deviation and coefficient of variation (C.V.) of the following frequency distribution:

Class	0-5	5-10	10-15	15-20	20-25
Frequency	13	17	15	25	10

b)

i)

$$\text{If } A = \begin{pmatrix} 3 & -3 & 2 \\ 1 & 5 & 4 \end{pmatrix}, \quad B = \begin{pmatrix} 2 & 1 & 3 \\ -2 & 2 & -10 \end{pmatrix}, \quad C = \begin{pmatrix} 1 & -1 & 1 \\ 2 & 2 & -2 \end{pmatrix}$$

Find $A + 2B$ and $C - 2B$.

ii) Evaluate :

$$\text{i) } \begin{vmatrix} -5 & 2 \\ 8 & 4 \end{vmatrix} \quad \text{ii) } \begin{vmatrix} 4 & 1 & 1 \\ 3 & -5 & 1 \\ 1 & -2 & 3 \end{vmatrix}$$

Q.2. Attempt **any One** of the following.

5 Marks

a) Define Principal and Amount.

b) State the properties of correlation coefficient (r)

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Assignment No:- 2

Q.1. Attempt **any One** of the following.

10 marks

a) i) Find the range and coefficient of range for the following data :

X	25	35	45	55	65	75	82
f	3	61	132	153	149	51	2

ii) Calculate the standard deviation and coefficient of variation (C.V.) of the following :

27, 25, 33, 15, 20, .

b) i) Find x and y if :

$$\begin{pmatrix} x+y & y-3 \\ 3-2x & y-x \end{pmatrix} = \begin{pmatrix} 7 & 0 \\ -5 & -1 \end{pmatrix}$$

ii) Solve the following system of equations by using Cramer's rule .

$$X - 2y = 0 \text{ and } 2x + 3y = 7 .$$

Q.2. Attempt **any One** of the following.

5 marks

a) Define correlation and different types of correlation

b) What sum will amount to Rs. 2000/- in 3 years at 6% p.a. compound interest ?
