

Institute of Management Studies(IMS)

DAVV, Indore

M.B.A.(FA)-Ist Sem.-2023

Quantitative Methods

Date: 19/12/23

Max. Marks:60

Time:3 hr(11:00 A.M.-2:00 P.M.)

Note: Attempt any five questions. Each question carries equal marks.

Question-1: (a) What do you understand by set? Explain different operations on sets with suitable examples

(b) Explain Functions and vertical test.

Question-2: (a) Discuss various methods of trend analysis with examples.

(b) Discuss Solving linear equation by reduction using elementary row transformation

Question-3: The following data give the ages and blood pressure of 10 women:

Age	56	42	36	47	49	42	60	72	63	55
Blood pressure	147	125	118	128	145	140	155	160	149	150

(a) Find the correlation coefficient between age and blood pressure

(b) Determine the least square regression equation of blood pressure on age

(c) Estimate the blood pressure of a woman whose age is 45 years.

Question-4: Find the rank correlation coefficient from the following marks awarded by the

examiners in statistics: *which two examiners think a like*

Examiner	1	2	3	4	5	6	7	8	9	10	11
Marks Awarded by Examiner A	24	29	19	14	30	19	27	30	20	28	11
Marks Awarded by Examiner B	37	35	16	26	23	27	19	20	16	11	21
Marks Awarded by Examiner C	30	28	20	25	25	30	20	24	22	29	15