

			SLOT: AI			
	School	of Information T	echnology and Engineering			
Winter Semester 2	022-2023		Continuous Assessment Test - II			
Programme Name & Branch		MASTER OF COMPUTER APPLICATION				
Course Code:	MAT 5010	Course Title:	Foundations of Data science			
Class Number(s)	VL2022230500506					
Faculty Name(s)	Dr Shashikiran Venkatesha					

Open Book Examination.

Exam Duration: 90 Min.

Maximum Marks: 50

- 1. A die is thrown 9000 times and a throw of 3 or 4 occurred 3240 times. Is the die unbiased? Find the confidence limits for the probability of getting of 3 or 4.
- 2. The following data are got from an investigation.

	No of cases	Mean wages	SD of the wage	
Sample 1	400	47.4 rupees	3.1 rupees	-15.25
Sample 2	900	50.3 rupees	3.3 rupees	

Find out the two mean wages differ significantly.

3. Obtain the regression lines for the following data. Also determine the co-efficient of correlation.

X	22	26	29	30	31	31	34	35	
Y	20	20	21	29	27	24	27	31	

- 4. From the following data, obtain the partial correlation co-efficient r AB.C and r BC.A
- A 20 15 25 26 28 40 38
- B 12 13 16 15 23 15 28
- C 13 15 12 16 14 18 14

0.74

0.5684

- 5. Find the multiple correlation co-efficient R 1.23 for the following.
- 1: 50 54 50 56 50 55 52 50 52 51

0.5980

- 2: 42 46 45 44 40 45 43 42 41 42,
- 3: 72 71 73 70 72 72 70 71 75 71