

SCHOOL OF COMPUTER SCIENCE AND APPLICATIONS Odd Semester 2024-2025 Assignment II

Programme: PG – MCA Course Code: M23DE0101

Semester: I Course Title: Mathematics for Computer Applications

Section: A Name of the Faculty: Dr. M Vinayaka Murthy

Date of Announcement: 29-01-25 Date of Submission: 03-02-25

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No	Assignment Question										PO	PSO
1.		_			co-effi	cient of	f rank c		-	2	1,2	1,3
2				x = 6.2		6	7 14	8 16	g data also	2	1,3	1,2
3.	a) In a bivariate data, the regression lines are $2x - y + 4 = 0$ and $x - y + 1 = 0$, find r, \overline{x} , and \overline{y} b) Given the line of regression as $8x - 10y + 66 = 0$ and $40x - 18y - 214 = 0$, determine the mean value of x and y c) In a bivariate data, the regression lines are $4x - 5y + 33 = 0$ and $20x - 9y = 107$, find \overline{x} , and \overline{y}							2	1,2	1,3		
4	Fit a straight l	x y	ation i.e 1911 15	e., y = 1921 23	a + bx t 1931 28	o the fo	ollowing 1951 39	g da	ta	2	1,2	1,3
5	Fit a second-d	egree p x y	oarabola 0 1	1 1 1.8	2 1.3	3 2.5	4	3		2	1,2	1,3

6	From the following data of marks obtained by 10 students in Mathematics			
	and Statistics, calculate the co-efficient of rank correlation	2	1,3	1.2
	x 43 96 74 38 35 43 22 56 35 80	Z	1,3	1,2
	y 30 94 84 38 30 18 30 41 48 95			
7	The height (x cms) and weight (y kgs) of 6 students are as follows.			
	Obtain the two regression equations. Also find the expected height a			
	person whose weight in 60 kgs	2	1,3	1,2
	x 153 157 168 160 170 163	<u> </u>	1,3	1,4
	y 48 50 50 49 54 53			
8	Calculate the co-efficient of correlation and obtain the lines of regression			
	for the following data	2	1,2	1,3
	x 78 89 97 69 59 79 68 57	_	_,_	_,-
	y 125 137 156 112 107 138 123 108			
9	Find the co-efficient of correlation for the following data			
	x 36 43 47 28 35 50 40	2	1,2	1,3
	y 73 44 35 30 20 36 40		,	,
10				
10	From the following data of marks obtained by 10 students in Computer			
	Science and Statistics, calculate the co-efficient of rank correlation			
	x 35 56 50 65 44 38 44 50 15 26	2	1,2	1,3
	y 50 35 70 25 35 58 75 60 55 35			
11	Find the co-efficient of correlation for the following data			
	x 62 64 69 70 71 72 74	2	1,2	1,3
	y 126 125 139 145 152 180 208	_		2,0
12	Find the regression lines for the following data			
	x 1 2 3 4 5	2	1,2	1,3
	y 2 5 3 8 7		,	7-

Subject Teacher

HOD

Director