Name: - Partil omkar Ramchandra ANI no:- 21102A0003 Branch: - CMPN Div A Tutorial Na: 5 0.1. dx_{5} $A-\infty=\infty b$ dy= 4-B -dx . dy Ans-X 4 -6 -8 48 36 84 19 10 22 -4 -5 25 20 12 16 -3 9 24 -3 9 9 153 27 0 0 0 0 0 16 29 1 2 2 4 1 17 33 6 24 36 16 50 4 37 81 10 25 P 90 100 Edxoy=193 Edx2=159 Edy2=28 Ey= 191 5x= 113 Zdy=2 Zdx=1 Нете, Ex = 16.1428 $\ddot{y} = 27.2857$ ≥dx·du ≥q2c2 1.2131 $\geq dx \cdot dy - \left(\geq dx \cdot \geq dy \right)$ dbay = 1-2131 0.8116

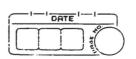
r = 0.9922

Regression line of youx is,

$$(y-\bar{y}) = b_{yx}(x-\bar{x})$$

Regression line of x on y is,

$$\frac{(x-x)}{(x-16\cdot1428)} = 0.8116 (y-27\cdot2857)$$

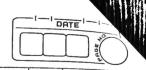


8.5	-			_				
Ans.		\boldsymbol{x}	y	R ₁	Ro	d= R1-R5	d2	,
		35	51	2	3	1	1	İ
		38	37	3	١	2	4	
		43	48	4	2	2	. 4	
		30	65	١	Б	-4	16	
		54	93	6	10	-4	16	
		68	73	8	8	0	0	
		70	56	٩	4	5	25	
		٩2	72	10	7	3 .	9	
		44	70	5	6	1 :	l.	
		26	92	7	٩	− J	4	
						£d=0	≤d²=80	
	•							

$$\therefore B = 1 - e \cdot \left(\frac{v_3 - v}{\leq q_5}\right)$$

$$R = 1 - 6 \left(\frac{80}{10^3 - 10} \right)$$

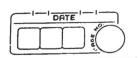
. R= 0.5151



Q.3.									
Ans.	α	Ч	dα	dy	dxdy	qx_{5}	945		
	57	10	15	-17	-285	225	289		
	42	26	0	-1	0	0	1		
	38	41	-4	14	-56	16	196	1	
	42	29	0	2	0	0	4		
	45	27	3	0	0	9	ō	1	
	42	57	0	0	0	0	6		
	44	19	2	-8	-16	4	64		
	40	18	-5	-9	18	4	8)		
	46	19	4	-8	-35	16	64		
	什什	31	5	4	8	4	16		
	43	29	1	2	2	١	4		
	40	33	-2	6	-15	4	36		
			≥9x=19	Zdy=-15	02=-343	≥9x=5&3	<i>≤</i> =7 <i>55</i>		
				< d~ < -					
	$\therefore \mathbf{r} = \sum d\mathbf{x} \cdot d\mathbf{y} - \left(\sum d\mathbf{x} \cdot \sum d\mathbf{y} \right)$								

 $\frac{D}{S9x_5-(S9x)_5} \cdot \frac{D}{S9h_5-(S9h)}$

: r= -0.7398



0.4.		"x" be	Father!	s helaha	- Qn M (1)	by eldest	- sonla he	plant.	
Ans ·		X	Į.	dx	dy	9x.94	925	dy2	
		165	173	7	5	35	49	25	
		160	168	2	0	0	4	0	
		170	173	12	5	60	144	25	
		163	165	5	-3	-15	25	9	
		173	175	15	٦	105	225	49	
		168	168	0	0	0	0	0	
4		178	173	20	. 5	100	400	2.5	
	-	168	165	10	-3	-30	100	9	
	-	173	180	15	12	180	225	144	
/			170	12	2	24	144	4	
		170	173	۱٦ .	5	28	289	25	
		180	178	22	10	220	484	100	L
	-	Z= 2033		2=137		2=764	5 = 209	9 == 415	
	-					4 10		•	•

.. x= 169.4166

. y= 171.75 ≥dx.dy-

(Sdx) $\leq dx^2$ -

7

0-4767

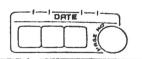
Edx dy-

(Squy)

pru = . 1.0162

Dry X Dyx

0,6960



$$(y-\overline{y}) = b_{yx}(x-\overline{x})$$

$$\frac{1}{12} (x - 3x) = b_{xy} \cdot (y - y)$$

$$\frac{1}{12} (x - 169.4166) = 1.0162.(y - 171.75)$$

$$x = 1.01624 - 5.1157 - 67$$

Hence, coifficent of correlation (r) is 0.6960