Palin	neeta Jain	BRE Assignment				
	23	THE HISSIGNIFICATION				
	32222105	23/1/25				
	TY Brech Bioenginees	() DOTTUMES				
Ows) the	betourns take	shows how the concernation				
e	2 Peacto	nt A vau ed with time				
-	in a parieura	enpelment				
	- portour	V RP 04 PTC .				
	(I'me (min)	Concentration of A (moete)				
	าน-ฉานั้น	Concentration of A (moete)				
	0	2-77×10-4				
	18	2.32×10 <sup>-4</sup>				
	31	R·05 × 10 <sup>-4</sup>				
	55	1:59 × 10-4				
	19	1.26 ×10-4				
	157	0.58 × 10-4				
	∞	0.00				
		ancentration of A against time				
b)Dr	aw tangents to	the cures at 10.50.				
100	and 150 minut	es and calculate the slopes. That of reaction against				
c) PI	lot a grouph of	mate of reaction against				
conce	utration of A. [	<i>d</i>				
i) Fina	y the line ba	we through origin Euplain				
(1) Will	ii) With the help of a graph, state the					
relat	relationship blw the v rate of a reaction and					
Como	concentration of reactant both Ph ward and					
	mathematicaly					
(iv) (fine	find the values of rate constant from graph what is the order of reaction.					
iv) wha	what is the order of reaction.					
	<i></i>					
	¥ *					

FROCE DO.

→ Calculations
Slopes:

m= 42-41

(9) Plopes= Dy = 222×10-4-249×10-4 = 0.028×10-4
10min (rate) Du 10-0

(b) Slopes: Dy = 1.64-2.49 = 0.021 ×10

50min Du 50-10

(c) stopes-, by = 0.013×10-4

(Pime (min)	Slope (rate constant)	Concentration
10	2.8×10-6	2-49×10-4
50	2-1×10-6	1.64×10-4
100	1.3×10-6	0.99×10-4
150	0-82×10-6	0.58×10-4

-> · Rate y reaction : KCA

· rate of reaction is proportional to concentration of the reactant

→ At the origin rate of reaction is seen as the another of secretarities also zero.

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> Rate Constant:

K: Slope = Drate

Dioncentration

 $= 2.8 \times 10^{-6} = 11.2 \text{ mm}^{-1}$  $2.49 \times 10^{-4} \times 10^{-3}$ 

The reaction is first order with respect to A, as
the rate is proportional to the first
power of concentration of A.

warus: I unit = 10 mins and lune 0.2 mell 3.2 2-8 2.6 2.4 2.2 2.0 2.0 1.4 0.99 1.2 2 1.0 1015 0-58 0.8 150 0.6 0.4 0-2 20 30 40 50 60 / 20 80 90 100 110 120 130 140 150 160 Time (min)

an (13) Role VIs concentration of A State:

nasis - lunit = 0.2

muele

y assis - Lunit: 0.2

mot /(lmin) (more / somm) 0-8 0-6 0-4 0-2 0-2 04 016 018 \$ 1.2 14 216 12 118 20 212 24 25 216 218 conceurs alion (mue/e) ×10-4