



Palestine Technical University - Kadoori

Faculty of Applied Sciences

Wednesday, 4/10/2013

General Chemistry Lab2

Quiz

Time allowed: 60 Min.

Name (in Arabic):

Section (day):

(Q1) A three trials experiment was done to determine the rate law and activation energy for the reaction of H_2O_2 and KI

Solution A						Solution B	
Trial	Boiled Water (ml)	Buffer (ml)	0.3 M KI (ml)	0.02 M $\text{Na}_2\text{S}_2\text{O}_3$ (ml)	starch (drops)	0.1 M H_2O_2 (ml)	Time for color change (seconds)
1	4	1	1	1	5	3	130
2	3	1	2	1	5	3	65
3	1	1	1	1	5	6	65

- Determine the reaction rate for each trial?
- Determine p, q, the order of reaction with respect to I^- and H_2O_2 respectively?
- Determine k' the specific rate constant for each trial?
- What is the rate law of the reaction?