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Q.26. For the hydrolysis of methyl acetate in aqueous solution, the following result are obtained: 5 marks

t/s	0	10	20
$CH_3COOCH_3 / mol L^{-1}$	0.10	0.05	0.025

(a) Show that it follows pseudo first order reaction, as the concentration of water remains constant.

(b) Calculate the average rate of reaction between the time interval 10 to 20 seconds.

(Given : $\text{Log } 2 = 0.3010$, $\text{Log } 4 = 0.6021$)

Or

(a) For a reaction $A + B \rightarrow P$, the rate is given by rate = $k[A][B]^2$

(i) How is the rate of reaction affected in the concentration of B is doubled?

(ii) What is the overall order of reaction if A is present in large excess?

(b) A first order reaction takes 30 minutes for 50% completion. Calculate the time required for 90% completion of the reaction.



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