

FACULTY OF ENGINEERING UNIVERSITY OF RAJSHAHI

Nº 0036345

Signature of Invigilator

Class Test

Total Marks

Roll Number/Student ID No. ..

Course Code

Exam. Date ..

RUP-40,000/C.S. 413/Date: 15.10.2016
Chemical Kinetics + mobile 12
What do you meant by chemical kineties. What do you meant by reaction rate what we the backoster
I what do you meant by reaction rate what we the backosts
what is meant by order and molecularity of a reaction 2 icults), 2013 (iu), 14.) CSE (2019) Distinguish between order and molecularity of a reaction
what is meant by order and molecularity of a
reaction @ icul5), 2013 (16), 14.) (SE (2014)
Distinguish between order and molecularity
of a reaction
what is birest order reaction? write down
the charactoreties ob 15t order reaction
what is Second order reaction? wint down the

the characteristics of Second order reaction. 2x Distinguis h_ between 1st and 2nd order reaction. * * Deduce the integrated borm of 45+ order reaction of K = 2.303 log a cse(2016 Dequee the integrated from of 2nd order reaction of 1 = 1 alax 2.75 [icello)

Secretion of 2 1 alax 2.75 [icello)

Structural is meant by halb-like period Deduce the nalt-like period of a tring-torder reaction. of prove the birgt order reaction's half lite period is inversely proportional to the reate constant Halt-like Dorwood of his 1st order reaction is independent of initial concentration

DR Halt-like pooled of 1st order reaction 18 independent of reactant concentration.

(SE 1203 ** what is second order reactions. Deduce the integrated form second order reaction $K = \frac{1}{2} \cdot \frac{\lambda}{a(an)} iako15$ * Deduce the halt-like of Second order reaction Prove that half-like of a second order oraction is inversely proportional to the initial contentration of the reactant like (2019, CSE (2019, 2012 What is energy of activation 2 How it is determined (1+2) ice(1+6,2013) CSE (2016 What is Arribeneous equation. How temperature affects the rate of reaction ice (2019 temporature dependence on rate of a reaction what is transition State theory

what is energy of activation. How does the collision theory of reaction explain the energy of activation? * what is temperature coefficient? ice (19) What is zero order reaction? I we example integrate rate ean what is catalyst? numbers what is catalysis? classification tex what in catalynt promoter? cotalynt poising

* First order reaction does not complete? prove

Show that a second order reaction consists of two reactant can be transformed into a birest order reaction it in the system the amount of one reactant is more. A reactant is 50%. Consumed in 9 minute at a given te mperature, How much of the reactant will remain after one hour. 7 CSR 2015 Calculate the activation energy of a reaction whose rate constant at 27°c gets doubled for 10°e orize in temperature. CSE 2012

Show that in every tirest order reaction, time box 75% reaction is double the time required to 50%.
181(2013)

Calculate the time required too 9:0%. completion of a birest order reaction which is 50% complete in one hour. ?
ice (2015