Chemical Kinedice 283 marns No prove that for a 1st order reaction the time laver tox 99010 completion of the seaction is twice the tome reguaired box the completion 06 90010 06 the sean. A 1st order rear lane place 69.3 min. Kox 50% completion. How much tome write be needed Kox 800%) on a 15% order reaction, the reac dant concentration decreases 680m 0.8m to 0. 4m in 15 mzn. what is the time taken box conc 20 Chang & 0.1 m 20 0.025 m? what is the dikkrence bet" order and molecularity of the Nory 90,9 st 06 yean 1 what is mole cula sity ? Enclais with examples ?



Not Englazo, why the saile of sean decreases as rear processed. Not for a 1st order reaction if laires 16 man to complete 50% Yean. How much stome does d lanes to complete 75 10 really No.8 Calculate the vorte constant of a real cist order) which is 90010 complete in 10 man? Nog what is zero or der rea?? No ro Name any Lwo racitors that infile ce the varle of a rea?. Prove that the time requarked Kor completion OK 99.9 % of 1st order sean is in times the time in requaised box 500% completion of the sea?



No:12 Prove that tox a 1st order sean, the tome reguaired tox completion of 99.9 % ob year is three times the frme reguarred box completion of 90010 06 the sean, Not show that the time requarised box completion OK 99.900 K a 1st order rear is five times the time requarged box completion of 750/0 66 the rean. Noly A 1st Q&dex rean 28 25 0/0 comelete en zoman. Calculate étis halt bike rerrival No.15 The safe of sean is doubled when the temp. raises trom 27°c to 37°c. calculate the activation energy Kor such rea?. 912 10 25 49 No. 16 Define l'emperature coekkrictent. Deserve, halt-like restod brom the 1st order ter lor - LF, vale equation. 🔘 🛯 Scanned with OKEN Scanner

10018 Name the factors that influence the safe or ream? Not on the sean 4NH3 + 50g -> 4NO +640 the sate of rosmation of No 28 3.6 × 10-3 mol litsect. (aluly) the vate or drisa preasance or og gas. Nº 20 90 certain rean, the reactants paves energy more than threshold energy yet the rear is slow enclar, Nord A rear is second order w. r.t seactant à' in the sear 247P. How the rate of sean well vary i'll the cone. of reactar Ors doubied. NO.22 Define threshold energy How is it related to activation energy??

How the catalyst affect the sale of. No.23 chemical rean. To be bar No.24 calculate the halt like period of a ust order rean having rate const. OK 10-2 sect. No.25 Disdinguish bet voule of sean & voite constant. NO.26 Define oxdex of a real. No 27 for the real alg + 3Hz > 2NHz. The Vate 05 dés sappearance 05 Hg 23 0.18 m sect. Find the rate ob drissaprevance ob Ng & the sate of rormation of NH2 BOOK 43 NO.28 The halk like resid of a 15+ oxder sean is 2 min. How long will it take to reach 1/4th 06 onifial conc. Ob the reactant.

Noide Derive an equation box halt like period of a zero order real. No 30 what is the dissence bet ang, & Enstamptorneous voite of real, No.31 why average rate of real y not equal the actoual rate or sean 1 No.32 for the 750/0 06 1st order reat is completed in 16 men. what is its half tike resid. Nº 33 Derrive Arrhenius equation. NO.34 A 1St order real is 20.10 completed en 10 min. calculate the specific year serte 05 the year & taken Kor 75% completion. NO.35 on the basis of the Ea how can you show slow and fast ypa?

No. 36 How is the sade of sean related to the conc. of the seactant? No 37 calculate the Ea OF sean achose sean sale at 300 k gets double Kor loc rese en temp. No 38 Explan the courseon theory, No 39 what is the order of the rean given below > 2 NO2 + 1 02 N2 5 what is activation energy) Enoter a) 9 e roles rea



long types S MONS Driscuss the factors that unliver on the sale of sean, NO.2 as Explain the term mole cularitys order ok sean. Give with suiter Crampie. by write d's déférence. agrif given g dog to a Nois Défine order & molecularity ok a sean. Derive enpression box the rate constant of a 1st order rean. Nory Derne write dikkrence bet order & molecularity of the rean. Derive enpression tor the rate constant or a zero order rean.

Nois Explain the flowing Activation energy 01> by Arrhenius theory Conziszon theory cy

