

3. Attempt only 8 questions**8 X 2 = 16****A. What is activation of catalyst?****Activation of catalyst:**

A substance which promotes the activity of a catalyst is called a promoter or activator or activation of catalyst.

Example:

Hydrogenation of vegetable oil is carried out by Ni. The catalytic activity of Ni can be increased by using Cu and tellurium.

B. Differentiate between negative catalyst and auto-catalyst?

Sl. #	Negative catalyst	Auto catalyst
1	A substance which retards the rate of a reaction is called a negative catalyst. And this phenomenon is called negative catalysis.	In some reactions, a product formed acts as catalyst. And this phenomenon is called auto catalysis.

iii. Write four characteristic of enzyme catalysis?**Characteristic of enzyme catalysis:**

- 1) Enzymes are the most efficient catalysts known and they lower the energy of activation of a reaction.
- 2) Enzymes catalysis are highly specific. E.g., Urease catalyses the hydrolysis of urea only and it cannot hydrolyse any other amide even methyl urea.
- 3) Enzyme catalytic reactions have maximum rates at an optimum temperature.
- 4) The pH of the medium also controls the rates of enzyme catalytic reactions. Each enzyme has an optimum pH.

iv. Write four characteristics of a catalyst?**Characteristics of a catalyst:**

- 1) A catalyst cannot affect the equilibrium constant of a reaction. It only decreases the time to reach equilibrium.
- 2) A catalyst is specific in its reaction. A particular catalyst works for one reaction. It may not work for any other reaction.
- 3) The mechanism of a catalysed reaction is different from that of an uncatalysed reaction.
- 4) A catalyst cannot start a reaction, which is not thermodynamically feasible.

v. What is energy of activation?**Activation energy:**

The minimum amount of energy in addition to average K.E which the particles must have for the effective collisions is called activation energy.

$$E_a = -2.303 R \times \text{slope}$$

Activation energy provides information about the path a reaction occurs.

vi. Draw Arrhenius plot to calculate the energy of activation.

See the topic of Arrhenius equation.

vii. Name the factors which affect the rate of chemical reaction.

Following factors affect the rate of reaction.

- Nature of a reactant.
- Concentration of reactants.
- Surface area.
- Light.
- Temperature.
- Catalyst.

viii. What is the effect of concentration of reactants on the rate of reaction?

Modern Chemistry Ch 11 Test

Nicholas D. Tzimopoulos



Modern Chemistry Ch 11 Test:

Modern Methods of Drug Discovery Alexander Hillisch, Rolf Hilgenfeld, 2012-11-28 Research in the pharmaceutical industry today is in many respects quite different from what it used to be only fifteen years ago There have been dramatic changes in approaches for identifying new chemical entities with a desired biological activity While chemical modification of existing leads was the most important approach in the 1970s and 1980s high throughput screening and structure based design are now major players among a multitude of methods used in drug discovery Quite often companies favor one of these relatively new approaches over the other e.g screening over rational design or vice versa but we believe that an intelligent and concerted use of several or all methods currently available to drug discovery will be more successful in the medium term What has changed most significantly in the past few years is the time available for identifying new chemical entities Because of the high costs of drug discovery projects pressure for maximum success in the shortest possible time is higher than ever In addition the multidisciplinary character of the field is much more pronounced today than it used to be As a consequence researchers and project managers in the pharmaceutical industry should have a solid knowledge of the more important methods available to drug discovery because it is the rapidly and intelligently combined use of these which will determine the success or failure of preclinical projects

Circular (United States. Bureau of Animal Industry). no. 138-150a, 1909-11, 1909 **Modern Power Station Practice** P.M. Reynolds, 2013-10-22 This volume contains two additional features which enhance the value of Modern Power Station Practice as a whole a cumulative subject index and a detailed list of tables of contents for the entire work The cumulative index provides access to the vast body of information presented in the set and also indicates at a glance the breadth and depth of the treatment through the use of inclusive page ranges for major topics In order to allow the reader the greatest flexibility in using the index there are many cross references The entries themselves are qualified by up to two descriptive subheadings to allow the most detailed coverage possible of the subject matter The reproduction of the tables of contents for each volume also provides an overview of the organisation of the individual volumes

Comprehensive Analytical Chemistry Cecil Leeburn Wilson, David Woodburn Wilson, 1959

Educational Tests and Measurements Walter Scott Monroe, James Clarence De Voss, Frederick James Kelly, 1924

Laboratory Experiments to Accompany "Modern Chemistry," Fredus Nelson Peters, 1902 *Modern Microcrystal Tests for Drugs* Charles Clarke Fulton, 1969 *Principles of Educational and Psychological Testing* Frederick Gramm Brown, 1970

25 Years UPSC IAS/ IPS Prelims Topic-wise Solved Papers 1 & 2 (1995-2019) 10th Edition Mrunal, 2019-06-18

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Modern Chemical Enhanced Oil Recovery James J. Sheng, 2010-11-25 Crude oil development and production in U S oil reservoirs can include up to three distinct phases primary secondary and tertiary or enhanced recovery During primary recovery the natural pressure of the reservoir or gravity drive oil into the wellbore combined with artificial lift techniques such as pumps which bring the oil to the surface But only about 10 percent of a reservoir s original oil in place is typically produced during primary recovery Secondary recovery techniques to the field s productive life generally by injecting water or gas to displace oil and drive it to a production wellbore resulting in the recovery of 20 to 40 percent of the original oil in place In the past two decades major oil companies and research organizations have conducted extensive theoretical and laboratory EOR enhanced oil recovery researches to include validating pilot and field trials relevant to much needed domestic commercial application while western countries had terminated such endeavours almost completely due to low oil prices In recent years oil demand has soared and now these operations have become more desirable This book is about the recent developments in the area as well as the technology for enhancing oil recovery The book provides important case studies related to over one hundred EOR pilot and field applications in a variety of oil fields These case studies focus on practical problems underlying theoretical and modelling methods operational parameters e g injected chemical concentration slug sizes flooding schemes and well spacing solutions and sensitivity studies and performance optimization strategies The book strikes an ideal balance between theory and practice and would be invaluable to academicians and oil company practitioners alike Updated chemical EOR fundamentals providing clear picture of fundamental concepts Practical cases with problems and solutions providing practical analogues and experiences Actual data regarding ranges of operation parameters providing initial design parameters Step by step calculation examples providing practical engineers with convenient procedures

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