

II B.Tech I Semester Examinations, MAY 2011

CHEMICAL PROCESS CALCULATIONS

Chemical Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) A gas mixture contains 0.1234 kg-mole of HCl, 0.153 Kg-mole of nitrogen, and 0.04037 Kg-mole of oxygen. Calculate its density in kg/m^3 at a pressure of 1.72 atm and a temperature of 40°C .
(b) State and prove law of Amagat. [7+8]
2. (a) By titration, it was found that a sample of water contains alkalinity equivalent to 800 mg/lit CaCO_3 . Assuming that the water contains temporary hardness due to $\text{Mg}(\text{HCO}_3)_2$, find the $\text{Mg}(\text{HCO}_3)_2$ content of water.
(b) Explain Baume and API. [15]
3. Pure sulfur is burned in a burner at the rate of 0.3 kg/s. fresh air is supplied at 303K and 100 kpa. The gasses from the burner contain 16.5% SO_2 , 3% O_2 and rest N_2 on SO_2 free volume basis. The gasses leave the burner at 1073k and 101.325 kpa. Calculate
(a) The fraction of sulfur burned in SO_3
(b) The % excess air over the amount required to oxidize the sulfur to SO_2
(c) The volume of dry air in m^3/s (d). The volume burner gas in m^3/s . [15]
4. (a) Discuss in detail what is heat of formation and how to calculate heat of formation.
(b) Calculate heat of reaction of the following
 $\text{HCl}(\text{g}) + \text{NH}_3(\text{g}) \rightarrow \text{NH}_4\text{Cl}(\text{s})$
 $\text{HCl}(\text{g})$ of change of enthalpy is -22,063 cal
 $\text{NH}_3(\text{g})$ of change of enthalpy is -11040 cal
 $\text{NH}_4\text{Cl}(\text{s})$ of change of enthalpy is -75,380 cal. [15]
5. (a) What do you mean by crystallization? Explain how it is used in industries.
(b) What do you mean by dissolution. [15]
6. Calculate the number of kilocalories required to heat, from 500 to 1500°C , 1 Cubic meter (standard conditions) of a gas having the following composition by volume : [15]

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Table of Contents Jntu Previous Question Papers 2 2

1. Understanding the eBook Jntu Previous Question Papers 2 2
 - The Rise of Digital Reading Jntu Previous Question Papers 2 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Jntu Previous Question Papers 2 2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jntu Previous Question Papers 2 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jntu Previous Question Papers 2 2
 - Personalized Recommendations
 - Jntu Previous Question Papers 2 2 User Reviews and Ratings
 - Jntu Previous Question Papers 2 2 and Bestseller Lists
5. Accessing Jntu Previous Question Papers 2 2 Free and Paid eBooks

- Jntu Previous Question Papers 2 2 Public Domain eBooks
- Jntu Previous Question Papers 2 2 eBook Subscription Services
- Jntu Previous Question Papers 2 2 Budget-Friendly Options
- 6. Navigating Jntu Previous Question Papers 2 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Jntu Previous Question Papers 2 2 Compatibility with Devices
 - Jntu Previous Question Papers 2 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jntu Previous Question Papers 2 2
 - Highlighting and Note-Taking Jntu Previous Question Papers 2 2
 - Interactive Elements Jntu Previous Question Papers 2 2
- 8. Staying Engaged with Jntu Previous Question Papers 2 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jntu Previous Question Papers 2 2
- 9. Balancing eBooks and Physical Books Jntu Previous Question Papers 2 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jntu Previous Question Papers 2 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jntu Previous Question Papers 2 2
 - Setting Reading Goals Jntu Previous Question Papers 2 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jntu Previous Question Papers 2 2
 - Fact-Checking eBook Content of Jntu Previous Question Papers 2 2
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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