

P227

[4317] - 5
F.Y. B.Sc.
CHEMISTRY - I
Physical and Inorganic Chemistry
(Paper - I) (2008 Pattern) (Theory)

*Time : 3 Hours]**[Max. Marks : 80**Instructions to the candidates :*

- 1) *All questions are compulsory.*
- 2) *Draw neat diagrams wherever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) Answer the following questions :**[16]**

- a) Find the value of y in the equation $y = 10^{-6.2218}$.
- b) Define the term surface tension.
- c) What is the effect of temperature on viscosity?
- d) Explain the term catalyst with example.
- e) State second law of thermodynamics in the form of entropy.
- f) BeF_2 is linear but SF_2 is angular. Why?
- g) How many moles are present in 90 grams of water.
- h) What are the types of hydrogen bond.

Q2) a) Attempt any four of the following :**[8]**

- i) Calculate the pH of $1.2 \times 10^{-3} \text{M HCl}$.
- ii) Find the value of x if $\log_e 6.321 = x$.
- iii) State any two rules of derivative.
- iv) Find the equation of line passing through the two points $(-1, -1)$ and $(2, 6)$.
- v) Arrange the following equation in the form of $y = mX + C$ and find out slope and intercept.
 $15y = X + 30$.
- vi) If $y = \frac{x}{x^2 + 1}$, find $\frac{dy}{dx}$.
- vii) If $y = (3x^2 + 1)(x^3 + 2x)$; find $\frac{dy}{dx}$.
- viii) $\int_2^8 x^3 \cdot dx = ?$

Fybsc Chemistry paper In Pune University 2014

Daniela Niemeyer



Fybsc Chemistry paper In Pune University 2014:

Fybsc Chemistrypaper In Pune University 2014 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Fybsc Chemistrypaper In Pune University 2014**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Fybsc Chemistrypaper In Pune University 2014

1. Understanding the eBook Fybsc Chemistrypaper In Pune University 2014
 - The Rise of Digital Reading Fybsc Chemistrypaper In Pune University 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Fybsc Chemistrypaper In Pune University 2014
 - 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 Fybsc Chemistrypaper In Pune University 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fybsc Chemistrypaper In Pune University 2014
 - Personalized Recommendations
 - Fybsc Chemistrypaper In Pune University 2014 User Reviews and Ratings

- Fybsc Chemistrypaper In Pune University 2014 and Bestseller Lists
- 5. Accessing Fybsc Chemistrypaper In Pune University 2014 Free and Paid eBooks
 - Fybsc Chemistrypaper In Pune University 2014 Public Domain eBooks
 - Fybsc Chemistrypaper In Pune University 2014 eBook Subscription Services
 - Fybsc Chemistrypaper In Pune University 2014 Budget-Friendly Options
- 6. Navigating Fybsc Chemistrypaper In Pune University 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Fybsc Chemistrypaper In Pune University 2014 Compatibility with Devices
 - Fybsc Chemistrypaper In Pune University 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fybsc Chemistrypaper In Pune University 2014
 - Highlighting and Note-Taking Fybsc Chemistrypaper In Pune University 2014
 - Interactive Elements Fybsc Chemistrypaper In Pune University 2014
- 8. Staying Engaged with Fybsc Chemistrypaper In Pune University 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fybsc Chemistrypaper In Pune University 2014
- 9. Balancing eBooks and Physical Books Fybsc Chemistrypaper In Pune University 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fybsc Chemistrypaper In Pune University 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fybsc Chemistrypaper In Pune University 2014
 - Setting Reading Goals Fybsc Chemistrypaper In Pune University 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fybsc Chemistrypaper In Pune University 2014
 - Fact-Checking eBook Content of Fybsc Chemistrypaper In Pune University 2014
 - 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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