

# Model Paper 2014 Chemistry

## Inter 1st Year

TIME : 3 HOURS]

[ MAX. MARKS : 60

### SECTION-A

10x2=20

NOTE : Answer all the questions

1. Calculate the R M S speed of nitrogen molecules at 27°C ?
2. What is disproportionation reaction? Give example.
3. Calculate the pH of 0.05M Ba(OH)<sub>2</sub> solution.
4. Write the biological importance of magnesium and calcium
5. Give the reactions that takes place at anode and cathode in Castner-Kellner process.
6. Graphite is a good conductor of electricity, Why?
7. What is allotropy ? Name two crystalline allotropes of carbon.
8. Define the terms C O D and B O D?
9. What are the harmful effects of acid rains?
10. Give the structural formulae of the following compounds  
(a) 2,3- dimethyl butane (b) 2-methyl but-1-ene

### SECTION-B

6x4=24

NOTE: Answer any **Six** of the following questions.

11. Write any four postulates of kinetic molecular theory of gases.
12. Balance the following redox equation in acidic medium by ion-electron method



13. State Hess's law of constant heat summation. Explain with one example.
14. Derive the relation between K<sub>p</sub> and K<sub>c</sub> for the equilibrium reaction  
$$\text{N}_{2(g)} + 3\text{H}_{2(g)} \rightarrow 2\text{NH}_{3(g)}$$
15. Explain electrolytic method of preparation of hydrogen peroxide.
16. Explain the structure of diborane on the basis of VBT
17. Explain (a) position Isomerism and (b) functional group Isomerism with one example for each of them.
18. Explain (a) Wurtz reaction and (b) Friedel- Craft's alkylation with one example for each of them.

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**Karin Nielsen-Saines**



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## **Table of Contents Model Paper 2014**

1. Understanding the eBook Model Paper 2014
  - The Rise of Digital Reading Model Paper 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Model Paper 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 Model Paper 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Model Paper 2014
  - Personalized Recommendations
  - Model Paper 2014 User Reviews and Ratings
  - Model Paper 2014 and Bestseller Lists
5. Accessing Model Paper 2014 Free and Paid eBooks
  - Model Paper 2014 Public Domain eBooks
  - Model Paper 2014 eBook Subscription Services
  - Model Paper 2014 Budget-Friendly Options

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