

# Model Paper 2014 Chemistry

## Inter 1st Year

TIME : 3 HOURS]

[ MAX. MARKS : 50

### 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  
$$\text{MnO}_4^- + \text{C}_2\text{O}_4^{2-} \rightarrow \text{Mn}^{2+} + \text{CO}_2$$
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.

# Model Paper 2014

**Tobias Bleicker**



## **Model Paper 2014:**

## **Model Paper 2014** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Model Paper 2014**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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