



JAIN COLLEGE, J C Road Bangalore
Mock Paper -1, February - 2015
II PUC- Chemistry (34)

Time: 3 Hours 15 Minutes

Max. Marks: 70

Instructions:

1. The question paper has four parts: A, B, C and D. All parts are compulsory.
2. Write balanced chemical equations and draw labelled diagrams wherever required.
3. Use log tables and the simple calculator if necessary. (Use of scientific calculators is not allowed).

PART - A

I Answer ALL the following questions. 10 X 1 = 10

(Answer each question in one word or in one sentence)

1. Two liquids A and B on mixing produce a warm solution. Which type of deviation from Raoult's law does it show?
2. What freezes out first when a solution of common salt is cooled?
3. Why SHE is named as a reversible electrode?
4. Write the rate equation for the reaction $2A + B \rightarrow C$, if the order of the reaction is zero.
5. Sky appears blue in colour. Give reason.
6. Name the method used for the purification of Nickel.
7. Give one use of argon.
8. Give the IUPAC name of $CH_3CH=CHC(Br)(CH_3)_2$.
9. $2CH_3COCl + (CH_3)_2Cd \rightarrow X + CdCl_2$. What is X?
10. Write the structure of sugar present in RNA.

PART - B

II Answer any FIVE of the following (Each question carries 2 marks). 5 X 2 = 10

11. Account for the following:
(a) Metallic crystals show high electrical conductivity.
(b) Molecular crystals are soft and volatile
12. State Faraday's second law.
13. Rate constant of a first order reaction is $2.3 \times 10^{-4} s^{-1}$. Calculate the time taken for the completion of $2/3^{rd}$ of the reaction.
14. Atomic sizes of $3d$ series elements from chromium to copper are almost same. Give reason.
15. How is salicylic acid converted to aspirin?
16. Describe haloform reaction with an example.
17. What are tranquilizers? Give examples.
18. What are artificial sweeteners? Which artificial sweetener is stable at cooking temperature?

PART - C

III. Answer any FIVE of the following (Each question carries 3 marks). 5 X 3 = 15

19. Explain the extraction of aluminium from purified alumina by Hall-Heroult process.
20. (a) How does copper react with dil. HNO_3 ?
(b) Which allotropic form of phosphorous exhibits chemiluminescence? (2+1)
21. Explain the steps involved in the manufacture of sulphuric acid by contact process.
22. (a) Complete the following reactions:
(i) $NH_3 + Cl_2 \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
(ii) $Na_2SO_3 + Cl_2 + H_2O \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
(c) Hydrogen fluoride is liquid, but other hydrogen halides are gases. Give reason. (2+1)

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1. Understanding the eBook 2nd Puc Question Paper Solutions
 - The Rise of Digital Reading 2nd Puc Question Paper Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Puc Question Paper Solutions
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Puc Question Paper Solutions
 - Personalized Recommendations
 - eBook User Reviews and Ratings
 - eBook Bestseller Lists
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 - eBook Public Domain eBooks
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 - Adjustable Fonts and Text Sizes of eBook Solutions
 - Highlighting and Note-Taking eBook Solutions
 - Interactive Elements eBook Solutions
8. Staying Engaged with eBook Solutions

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Puc Question Paper Solutions
9. Balancing eBooks and Physical Books 2nd Puc Question Paper Solutions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Puc Question Paper Solutions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2nd Puc Question Paper Solutions
- Fact-Checking eBook Content of 2nd Puc Question Paper Solutions
 - Distinguishing Credible Sources
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- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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