

- a) What are Carbenes ? What is the state of their hybridisation ? Discuss structure and stability of singlet and triplet dichlorocarbene. 5
- b) Briefly explain the following observations : 2×2
- Phenyl anion is more stable than cyclohexyl anion.
 - N, N-dimethylaniline is weak as a base than N, N, Z, 6 - tetramethylaniline.
- c) Methane reacts with Cl_2 to form CH_3Cl and HCl , but with I_2 doesn't occur at appreciable rate, even $\text{I} - \text{I}$ bond is much weaker than $\text{Cl} - \text{Cl}$ bond. Explain why this is SO. 3
- d) What products are formed when glycine ($\text{H}_2\text{NCH}_2\text{CO}_2\text{H}$) is treated with conc. HCl and NaOH separately. 3
2. a) Draw the structure for each of the following compounds : $1\frac{1}{2} \times 4$
- (1R, 3S) - 1, 3-cyclohexanediol
 - (1Z, 3E) - 1-bromo-1, 3-pentadiene.

Polytechnic 2nd Semester Chemistry Question Papers

RANJAN KUMAR MOHAPATRA



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ENGINEERING CHEMISTRY FOR DIPLOMA RANJAN KUMAR MOHAPATRA, 2014-09-10 This book is written strictly for the first and second semester diploma students of engineering chemistry according to the revised syllabus. It aims to provide a thorough understanding of the chemical concepts, theories and principles in Engineering Chemistry in a clear and concise manner so that the average students are able to grasp the intricacies of the subject. Explaining general concepts of atomic structure and chemical bond, the book covers all advanced topics such as acid base theory, concentration of solutions, electrochemistry, corrosion, metallurgy, hydrocarbons, sources of water and its treatment, lubricants and adhesives, fuel, polymer and environmental chemistry. Each theoretical concept is well supported by illustrative examples. Besides, the book provides a large number of solved problems to reinforce the theoretical understanding of concepts. Each chapter contains glossary terms and provides short questions and long questions for practice. Previous year question papers and model questions with answers are appended at the end of the book to help students ace in examinations.

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