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2. a. Name alkali metals and give their electronic configuration. b. Discuss the variation of thermal stability of BeCO_3 , MgCO_3 , CaCO_3 and SrCO_3 c. The solubilities of sulphates of alkaline earth metals decreases on moving down the group. Justify. 3. a. What do you mean by dipole moment. b. Which among the following pairs has high dipole moment
i. CO_2 and NO_2 ii. HF and HCl iii. o-dichlorobenzene and p-dichlorobenzene c. What is unit of dipole moment 4. a. Sulphur forms SF_4 and SF_6 but oxygen does not form OF_4 and OF_6 , why ? b. Discuss the variation in b.p. of H_2O , H_2S , H_2Se and H_2Te c. Which among H_2SO_3 and H_2SO_4 are more acidic ? d. Write down the structure of peroxodisulphuric acid 5. a. Give the shape, structure and hybridization of the following- XeF_2 , CO_3^{2-} , BrF_3 , SF_4 and AF_5 b. Write the resonating structure of NO_3^- Organic Chemistry Paper-2nd Discuss the different types of hybridization used in organic molecules with reference to bonding in C_2H_2 and C_6H_6 . Why acetylene is more acidic than ethylene ? How will you determine molecular mass of a carboxylic acid by silver salt method. How will you synthesis glycerol from propene ? How glycerol reacts with the followings: a. a mixture of acetic acid and acetic anhydride b. Hydrogen Iodide c. PCl_3 d. P_2O_5 Write down all possible isomers of $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$. How a Primary, Secondary and Tertiary amines reacts with Nitrous acid Give formula of Lithium dialkyl cuprate. What is its use. Arrange the following a. In increasing order of stability: $\text{CH}_3\text{CH}_2\text{CH}_2^+$, $\text{CH}_3\text{CH}^+\text{CH}_3$, $(\text{CH}_3)_3\text{C}^+$ b. In increasing order of acidic strength: HCOOH , CH_3COOH , $\text{CH}_3\text{CH}_2\text{COOH}$ c. In increasing order of basic strength: $\text{CH}_3\text{C}(\text{NH})\text{NH}_2$, $\text{CH}_3\text{CH}_2\text{NH}_2$, $(\text{CH}_3)_2\text{NH}$, CH_3CONH_2 d. In increasing order of stability 1,3-pentadiene, 1,4-pentadiene, Benzene Explain Nucleophile, Electrophile and Free Radical What do you mean by SN_1 and SN_2 reaction Give an example of electrophilic substitution reaction Join Maxbrain Chemistry for Study. Classroom Course: XI-XII(CBSE & ICSE) | B.Sc. All Parts (Hon's & Sub.) | M.Sc. | IIT-JEE | NEET | IIT-JAM | GATE | PAT | SET | CSIR | Biochemistry | Microbiology 89%(56)89% found this document useful (56 votes)258K viewsThis document contains 49 chemistry questions divided into long answer questions (LAQs), short answer questions (SAQs) and numerical problems covering various topics in intermediate chemistr...SaveSave 1st Year Chemistry Important Questions For Later89%89% found this document useful, undefined Science, Tech, Math All Science, Tech, Math Humanities All Humanities Languages All Languages Resources All Resources