

ASSIGNMET XII

CHEMISTRY (ORGANIC CHEMISTRY)

Q1. Show how the 2-Methylpropan-2-ol is prepared by the reaction of of a suitable Grignard reagent and Ketone.

Q2. Which is a better nucleophile, a bromide ion or an iodide ion? Give reason .

Q3. What happens when diethyl ether reacts with excess of HI.

Q4. Aniline is less basic than NH_3 . Why?

Q5 . I Draw structure of Acetaldehydedimethyl acetal.

ii Predict the products formed when cyclohexanecarbaldehyde reacts with semicarbazide and weak acid.

Q6. Write the equation :

(i) Reimer Tiemann reaction

(ii) Gabriel pthalimide

reaction

Q7 . Write the mechanism of acid- catalysed dehydration of ethanol to ethene.

Q8 Write chemical test to distinguish B/W

(i) aniline and methylamine

(ii) propanal and

propanone.

Q9. Convert: (i) acetylene to acetic acid (ii) Toluene to benzene

Q10. . Give reason: (i) There are two $-\text{NH}_2$ groups in semicarbazide, only one is involved in the formation of semicarbazone. (ii) Although phenoxide has more number of resonating structures than carboxylate ion, carboxylic acid is stronger acid than phenol (iii) Cyclohexanone forms cynohydrin in good yield but 2,2,6-trimethylcyclohexanone does not.

Q11. . Write equations (a) (i) Friedal crafts reaction of anisole (b) prepare 2-Methyl-2methoxypropane by williamson's synthesis (c) reaction of phenol with Bromine in CS_2 .