V. P. &. R. P. T. P. Science College, Vallabh Vidyanagar B. Sc. Industrial Chemistry Vocational (Semester-III) Internal Test Fundamental Aspect in Organic Chemistry

Date: 07/10/2019 Subject Code: US03CICV23 Total Marks: 25 Time: 03:00 p.m. to 4: 15 p.m. Q.1Select the correct option 05 P. Scie 1. A nucleophile is _ b. Electron deficient species a. Lewis acid c. An electron rich species d. None of these LIBRAR Resorcinol on distillation with zinc dust gives 2. b. Cyclohexane c. Toluene a. Benzene d. m-xvlene Cannizzaro reaction is not given by 3. a. Formalehyde b. Trimethylacetaldehyde c. Acetaldehyde d. Benzaldehyde Aliphatic primary amines react with cold nitrous acids to form 4. a. Alcohols b. Diazonium salts c. Nitriles d Nitroalkanes 5. Hinsberg's reagent is a. Pd+BaSO₄ b. p-toluene sulphonic acid d. Benzenesulfonyl chloride c. NH₂NH₂+KOH Q.2 What are Carbnions and Carbocations? How they are generated? Mention few reactions 05 involving them. Illustrate your answer with suitable examples. OR Q.2 Write a note on: a) Inductive effect b) Hydrogen Bond 05 0.3 Write a note on "Oxymercuration-demercuration" for preparation of alcohol. 05 OR Write a note on acid/base catalyzed cleavage of epoxide. 0.3 05 Write a note on Hell-Volhard-Zelinsky reaction. 05 0.4 OR Write a note on Grignard synthesis of a carboxylic acid. 0.4 05 Write a note Hinsberg's Test. Q.5 05 OR

Give the following synthesis: a) m- bromophenol from nitrobenzene. b) p- bromo aniline from 05

Q.5

aniline.