

Kandi Raj College
 Dept. of Chemistry

6th semester General
 Practical Exam.

Paper - CHEMGP05E - 2

Total marks = 20

Group - A

1. (a) (b) (c) - 2 marks each

a. Name the reagent used for the identification of primary amine? Give the reaction of primary amine with nitrous acid? Name the product? (Reagent)
 Reaction: $\text{RNH}_2 + \text{HNO}_2 \rightarrow \text{RN} + \text{H}_2\text{O}$
 Product: Nitrosamine

b. i. Name the primary amine which gives the following reaction:
 $\text{RNH}_2 + \text{CH}_3\text{COCl} \rightarrow \text{RNHCOCH}_3$
 Answer: RNH_2 where R is any alkyl group.
 Reaction: $\text{RNH}_2 + \text{CH}_3\text{COCl} \rightarrow \text{RNHCOCH}_3 + \text{HCl}$

c. Name the primary amine which gives the following reaction:
 $\text{RNH}_2 + \text{HNO}_2 \rightarrow \text{RN} + \text{H}_2\text{O}$
 Answer: RNH_2 where R is any alkyl group.
 Reaction: $\text{RNH}_2 + \text{HNO}_2 \rightarrow \text{RN} + \text{H}_2\text{O}$

Group - B

2. a. Name the primary amine which gives the following reaction:
 $\text{RNH}_2 + \text{HNO}_2 \rightarrow \text{RN} + \text{H}_2\text{O}$

b. Name the primary amine which gives the following reaction:
 $\text{RNH}_2 + \text{CH}_3\text{COCl} \rightarrow \text{RNHCOCH}_3$