

Dr. SSB University Institute of Chemical Engineering & Technology  
1<sup>st</sup> Periodical

Class: 1st year B.E. (chemical )  
Time: 1 Hour

Sub: Organic Chemistry  
MM: 17.5

Q1- Define and differentiate the terms enantiomers and diastereomers . Draw the stereoisomers of 3-Chloro-2- butanol and identify enantiomers, diastereomers.

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Q2-Arrange the following in decreasing order of basic strength. Also justify the order with appropriate reason-

p-toludine, Aniline, methylamine, o-nitroaniline, p-chloroaniline, trimethylamine, acetamide

3.5

Q3- Write note on the following-

- (i) Molecular orbital structure of pyrrole
- (ii) Directive effect of methyl group
- (iii) Evidence of free radical mechanism

3x3