

Dr. SSB University Institute of Chemical Engineering & Technology

B.E. 1<sup>st</sup> year ( Chemical +MBA ) & FT

Chemistry II

II periodical

Time allowed- 60 minutes

MM-25

Q1- Which of the following compound is most easily dehydrogenated and why?

Explain (i)  $\text{CH}_3\text{CH}_2\text{Cl}$  (ii)  $\text{CH}_3\text{CHClCH}_3$  (iii)  $\text{CH}_3\text{CCl}(\text{CH}_3)_2$  (6)

CO 3 and CO 4

Q2-Differentiate between the following pairs-

(9) CO 2

1. Diastereomers and enantiomers
2. Conformational and configuration isomers
3. Meso and racemic compounds

Q3- Discuss the reaction of propylene and HBr with and without the presence of peroxide? Give the mechanism when peroxide is present. (6)

CO 3 and CO 4

Q4- What happens when- (Only reactions)

(4) CO3

- (i) Propene react with  $\text{Cl}_2$  at 500-600 C
- (ii) Butadiene react with HBr at -80 C and 40 C.