

5. (a) Explain the mechanism of the following reactions 10  
i. Beckmann rearrangement      ii. Oppenauer oxidation
- (b) Write two applications of each of the following: 4  
i. LAH      ii. Selenium oxide
- OR**
- (c) Describe the mechanism of the following reactions 8  
i. Hofmann rearrangement      ii. Birch reduction
- (d) Write any two synthetic applications of each of the following: 6  
i. Lead tetra acetate  
ii. NBS

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