Organic Chemistry Quiz-5: 16-Feb-2023. Time: 15 min

Write your roll number on the top of the page. Generally speaking, space available in this single page is expected to be sufficient; however ask for additional page if needed.

- 1. (5 points) For nucleophilic addition, Sykes book mentions Crams' rule. Give an example of its application. Give an explanation of the basis of the rule.
- 2. (5 points) Ozonolysis is a common technique to identify organic compounds. Write a example reaction, illustrating the reactant, mechanism (via electron pushing diagrams) and the products. Note that ozone action on rubbers is one of the main cause for 'aging' of plastics.
- 3. (5 points) In presence of a strong base (Bronsted-Lowry type), carbonyl compounds tend form carbanions that can start of nucelophilic attack. Give a example, with electron pushing mechanism.

8-Molt-2008 Time