

Chemistry (Honours)
B.Sc 2nd Sem
Class test-1

Total Marks: **30**

Time: **1¹/₂** hrs

1. Write Wurtz Fittig reaction and its mechanism. **3**
 2. What is the advantage of Corey House Synthesis over Wurtz reaction? **3**
 3. Discuss the mechanism of chlorination of an alkane. **3**
 4. Explain why iodination of methane is slower as compared to chlorination, though iodine-iodine bond is weaker than chlorine-chlorine bond? **3**
 5. How will you prove that mechanism of chlorination of methane involves the formation of free radicals as intermediate? **3**
 6. "Chlorination of hydrocarbons is an exothermic reaction and yet, it requires high temperature and exposure to high energy UV radiations for its success." Explain. **3**
 7. Write a reaction showing preparation of alkene from alcohol. **2**
 8. Write Chugaev reaction with mechanism. **3**
 9. Write Wittig reaction with its mechanism. **3**
 10. Write Heck reaction with its mechanism **4**
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