



V. P. & R. P. T. P Science College,  
B.Sc. Industrial Chemistry (Semester-V) Internal Test  
(ORGANIC CHEMISTRY)

Date: 03/10/2017

Time: 11:00 a.m. to 12: 30 p.m.

Subject Code: US05CICV01

Total Marks: 25

- Q.1 Select the correct option** 03
- I. Which of the following carbocation has the least stability?  
a. Methyl      b. Ethyl      c. Tert-butyl      d. isopropyl
- II. \_\_\_\_\_ reaction involves the 1,4-addition of an alkene to a conjugated diene to form an adduct of six-membered ring.  
a. Diels–Alder Reaction      b. Pinacol–Pinacolone Rearrangement  
c. Benzilic Acid Rearrangement      d. Fries Rearrangement
- III. Lithium Aluminium Hydride is an important \_\_\_ reagent.  
a. Reducing      b. Oxidizing      c. Brominating      d. Methylating
- Q.2 Answer the following in short (ANY TWO)** 04
- I. What are free radicals? How they are generated?
- II. Give reaction for Aldol condensation.
- III. Discuss the preparation of N- Bromosuccinimide.
- Q.3 Explain the following reactions with one example each.** 06  
1. Elimination reaction 2. Addition reaction
- OR
- Q.3** What are reaction intermediates? Explain with examples. 06
- Q.4** Discuss the types of Rearrangements. 06
- OR
- Q.4** Write short notes on Meerwein–Ponndorf–Verley Reduction. 06
- Q.5** Write short note on Lithium aluminum hydride. 06
- OR
- Q.5** Write short note on Osmium tetraoxide. 06