



NOVEMBER/DECEMBER 2018

MCH21 — ORGANIC CHEMISTRY — II

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Describe about neighbouring group participation mechanism.

Or

- (b) Write the mechanism of hydroboration of olefins and discuss the stereochemistry involved in it.

2. (a) Write a note on ozonolysis.

Or

- (b) Compare the reduction reaction of sodium cyanoboro hydride and sodium borohydride.

3. (a) Describe Von-Richter rearrangement.

Or

- (b) Discuss the mechanism of Favorski rearrangement.

4. (a) Give the synthesis of alkenes using phosphorus ylides.

Or

- (b) Explain one group C-C disconnection taking example of simple alcohols.

5. (a) Discuss the methods of preparation of oxazole.

Or

- (b) Write one synthetic method for the preparation of Adenine and guanine.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain the mechanism of the following

- (a) Benzoin condensation.
(b) Stobbe condensation.

7. Discuss the synthetic applications of

- (a) DCC
(b) Trialkyl tin hydride.

8. Write a note on Pinacol - Pinacolone rearrangement and explain the migratory aptitude of groups.

9. Write the synthetic uses of

- (a) Trimethyl silyliodide
(b) DIBAL.

10. How will you get testosterone and oestrone from cholesterol?

