2000 No 726/86/46

July 2014

M. Sc. IInd Semester Examination

CHEMISTRY

Paper VII (II) : Organic Chemistry - II (MCII 407)

Time 3 Hours!

[Max. Marks : Regular 85 / Private 100 / Old ATRT 38

Note : This question paper is meant for all Regular, Private and Old ATRT students. This question paper is in. All questions carry equal marks. The blind candidates will be given 60 minutes extra time.

- (a) Describe and write arenium ion mechanism.
 - Describe Vilsmeier reaction and diagonium coupling (b)

OR

- What is dramatic nucleophilic substitution (SNAr) ? Write mechanism of ArSH, reactions
- (b) Describe aromatic nucelophilic substitution
- Write short notes on any four from the following
 - (a) Oxidation of aldehydes to carboxylic acid.
 - (b) Hunsdicker's reaction.
 - (c) Free radical rearrangements.
 - (d) Neighbourinig group assistance.
 - Auto-oxidation. (e)
- 3. (a) Describe addition to cyclopropane ring.
 - (b) Write Hydrogenation of double and triple bond

Write note on :

- (a) Hydroboration
- (b) Michael's Addition.
- 4. Describe the Nucleophilic addition reactions of carbonyl compounds with
 - (a) Grignard's Reagent
 - (b) Organolithium Compounds
 - (e) Organozine Compounds.

OR

Write the mechanism and orientation in pyrolylic elimmation

5. Describe the pericyclic reactions with types of pericyclic reactions.

OR

Write notes on any two of the following :

- (a) Cope's Rearrangement
- (b) Claisen Rearrangement
- Ene Reaction. (c)