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Total No. of Pages : 02

Total No. of Questions : 06

M.Pharmacy (Sem.-2)

ADVANCED ORGANIC CHEMISTRY-II

Subject Code : PHCHM-132

Paper ID : [A2485]

Time : 3 Hrs.

Max. Marks: 80

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries SIXTEEN marks.

Q1 a) Write an explanatory note on intersystem crossing.

b) Discuss Woodward and Hoffmann rules.

Q2 Explain (any two) :

a) Bayer Villiger rearrangement

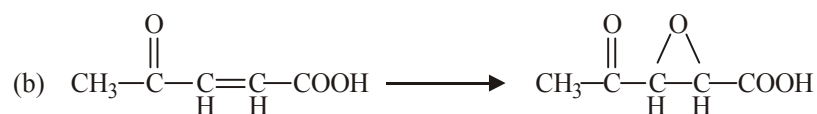
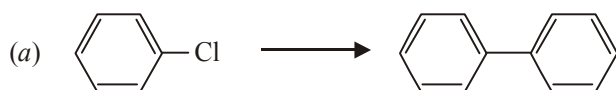
b) Favoskii rearrangement

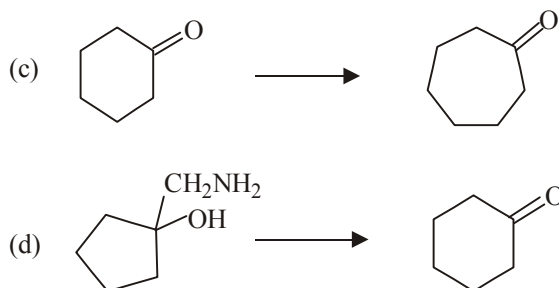
c) Claisen rearrangement

Q3 a) Discuss bimolecular displacement mechanism of aryl halides. Comment upon its orientation and reactivity.

b) Discuss in detail the various electrophilic substitution reactions of benzene. Give mechanism.

Q4 How can you bring the following conversions?





Q5 Write short notes on (**any two**) :

- Wittig reaction.
- Mixed Aldol condensation.
- Amine catalysed condensation reaction.

Q6 a) Comment upon synthetic methodologies utilized for synthesis of fused ring systems.

- Give various methods of preparing esters and amides.