

St. Joseph's College (Autonomous), Bengaluru – 27

Mid Semester Test - August 2016

M.Sc. Chemistry - III Semester

CH DE 9416 – Organic Synthesis

Duration: 1 hour

Max. marks: 20

PART A

Answer any **TWO** of the following:

(2 x 2 = 4 marks)

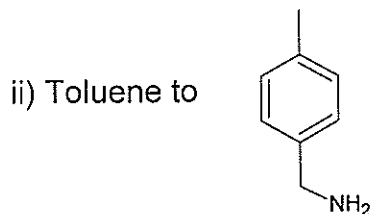
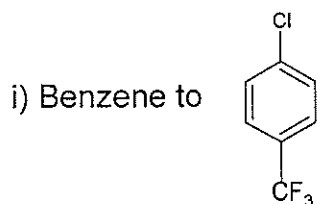
1. Explain the meaning of the terms 'synthon' and 'synthetic reagent' with an example each.
2. What is chemoselectivity? Explain with an example.
3. Give any two synthetic applications of aryl diazonium salts.

PART B

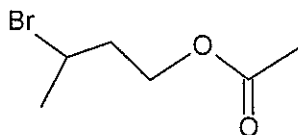
Answer any **TWO** of the following:

(6 x 2 = 12 marks)

4. Give an account of Two-Group C-X disconnections by taking examples of 1,1- and 1,2-difunctionalised compounds.
5. Carry out the following syntheses:



6. Apply disconnection approach and suggest a synthesis of the following compound:

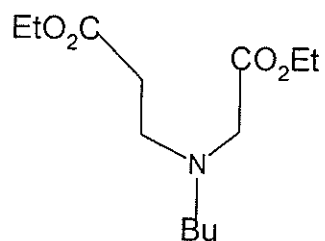


PART C

Answer any **ONE** of the following:

(4 x 1 = 4 marks)

7. Find all the 1,3-diX relationships in the following molecule and arrive at suitable starting materials for preparing it (synthesis not required).



8. Carryout the following conversion:

