

Registration No :

--	--	--	--	--	--	--	--	--	--	--

Total Number of Pages : 02

M.Sc.I
FCYC701

7th Semester Regular / Back Examination 2019-20

ORGANIC CHEMISTRY-V

BRANCH : M.Sc.I(AC)

Time : 3 Hours

Max Marks : 70

Q.CODE : HRB088

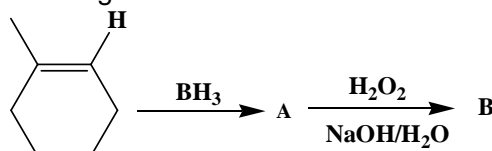
Answer Question No.1 which is compulsory and any FIVE from the rest.

The figures in the right hand margin indicate marks.

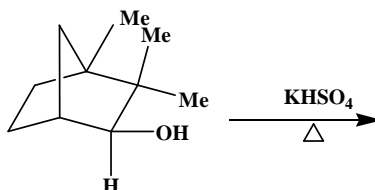
Q1 Answer the following questions :

(2 x 10)

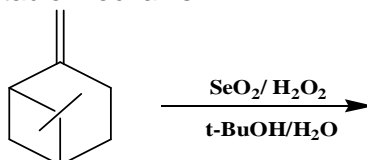
- Write the structure of DIBAL-H. Site an application of this reagent
- What is Raney-Nickel? Why it is important?
- Identify A and B in the following reaction.



- Identify the product with suitable mechanism.



- What is Hell-Volhard-Zelinsky reaction?
- What is Baker's Yeast? Give one of its applications.
- What is Lemieux-Johnson reagent? Site one of its applications.
- What is Luche reduction?
- Identify the product with suitable mechanism.

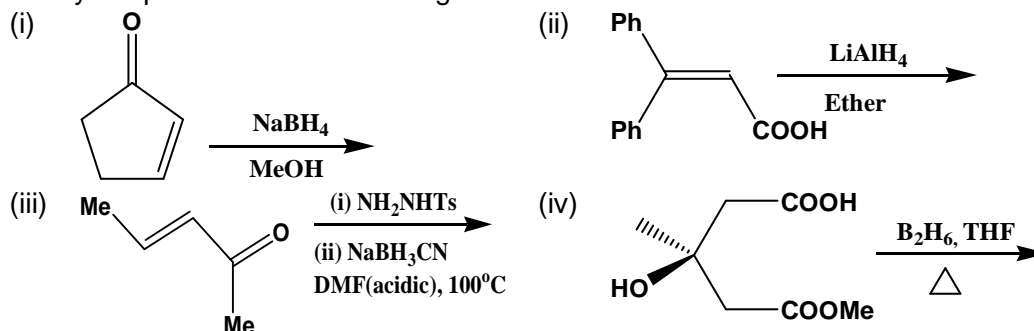


- What is Migratory aptitude? Explain with example.

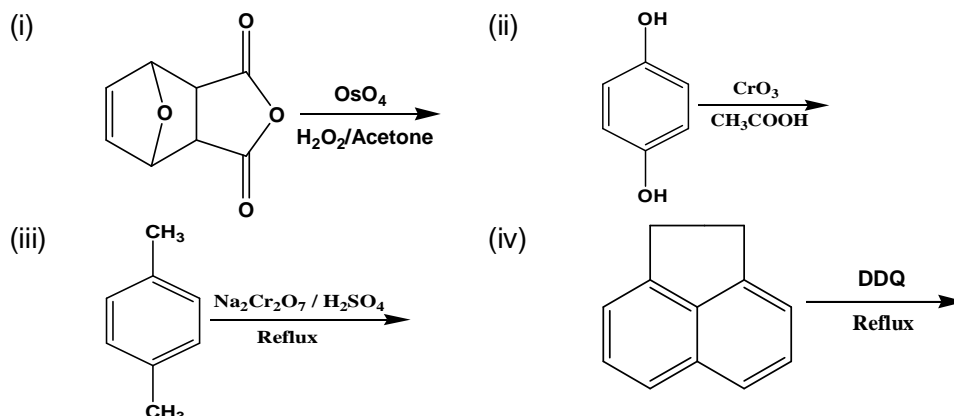
- Give the mechanism of catalytic hydrogenation of alkenes. Discuss about the different types of catalysts used in this process. (5)
 - Give a brief account of the catalytic hydrogenation of alkynes and discuss the role of metal-liquid ammonia reduction with mechanism. (5)

Q3 Identify the products of the following reactions with suitable mechanism.

(10)



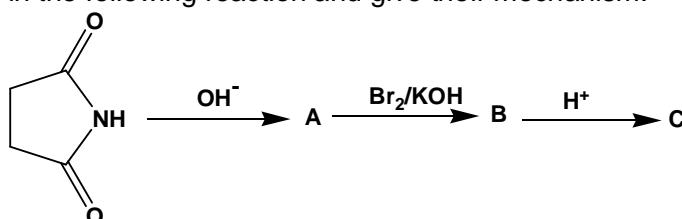
Q4 Identify the products of the following reactions with suitable mechanism (10)



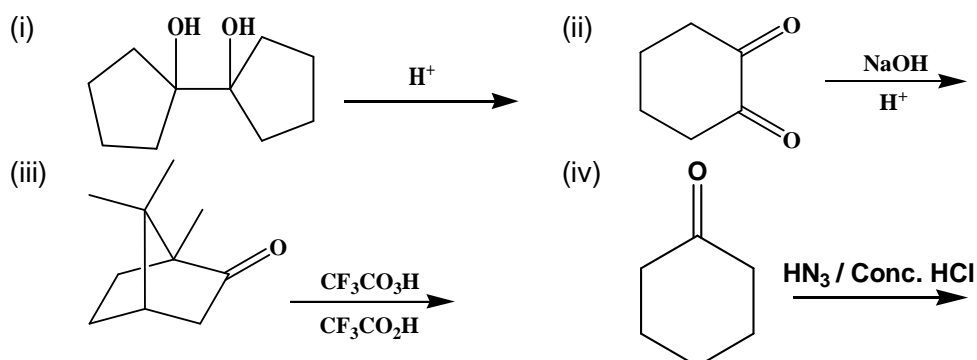
Q5 a) Discuss the following naming reaction with their mechanism (6)

(i) Claisen condensation (ii) Mannich reaction (iii) Swern oxidation

b) Identify A, B, C in the following reaction and give their mechanism. (4)



Q6 Carryout the mechanism of the following reactions and determine the products. (10)



Q7 Write notes on following naming reactions : (10)

- a) Gabriel synthesis, b) Reformatsky reaction,
c) Perkin reaction d) Openauer oxidation

Q8 Write short answer on any FOUR : (2.5 x 4)

- a) Beckmann rearrangement
b) Favorskii rearrangement
c) Fries rearrangement
d) Smiles rearrangement
e) Sommelet-Hauser Rearrangement