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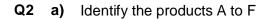
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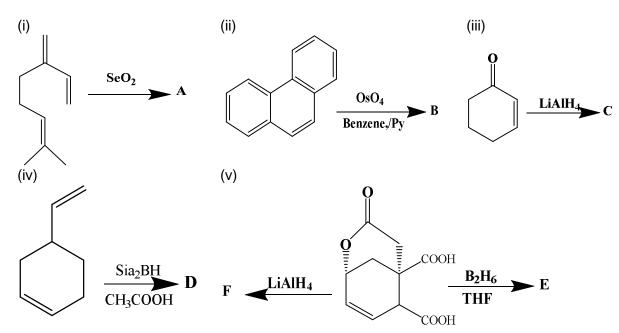
## 7<sup>th</sup> Semester Regular Examination 2017-18 Organic Chemistry-V BRANCH: M.Sc.I (AC) Time: 3 Hours Max Marks: 70 Q.CODE: B612

## 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:

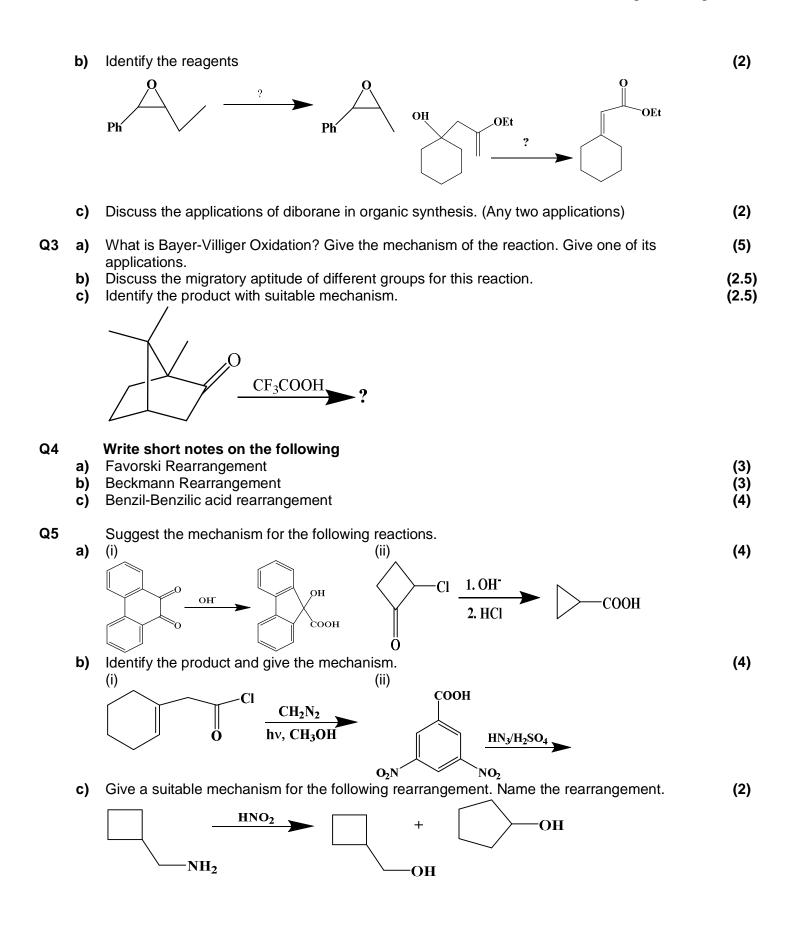
- a) What is chemoselectivity? Describe one organic reaction citing this concept.
- b) What is PCC? Give its structure and one application in organic synthesis
- c) What is Bakers' Yeast? Write one of its applications.
- d) What is Lindler catalyst? What will happen when but-2-yne treated with Lindler catalyst.
- e) What is Jones reagent? Write one of its applications.
- f) Mention the name of the reaction by which you can convert benzene to toluene. Give the mechanism.
- g) What is Photo reduction? Give an example.
- h) Starting from a cyclohexanone how can you synthesize caprolactum? Mention the steps
- i) What is Wurtz reaction? Which alkane cannot be prepared by this reaction and why?
- **j)** What is Luche reduction?

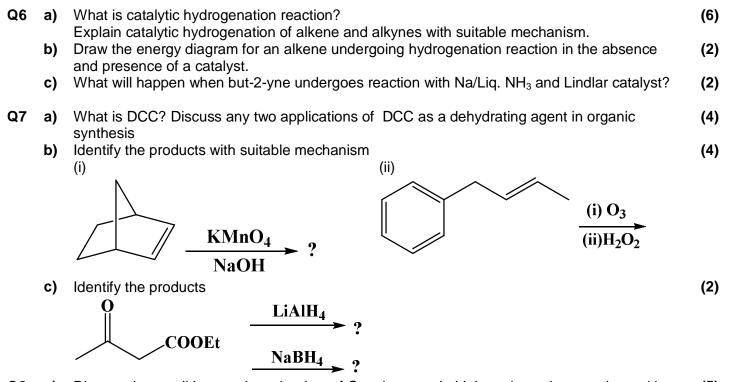




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(6)





- **Q8 a)** Discuss the conditions and mechanism of Cannizaro and aldol condensation reactions with **(5)** proper explanation.
  - b) What is Fries rearrangement? Discuss the inter-molecular and intra-molecular mechanism (5) for this rearrangement with a suitable example.