

M. SC. (Organic Chemistry) Sem-IV (Choice Based Credit & Grade System) : WINTER - 2018

SUBJECT : SYNTHETIC ORGANIC CHEMISTRY

Day : Saturday
Date : 20/10/2018

W-2018-1004

Time : 03.00 PM TO 06.00 PM
Max. Marks : 60

N.B.:

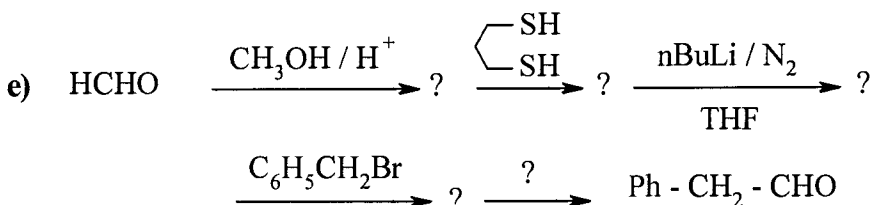
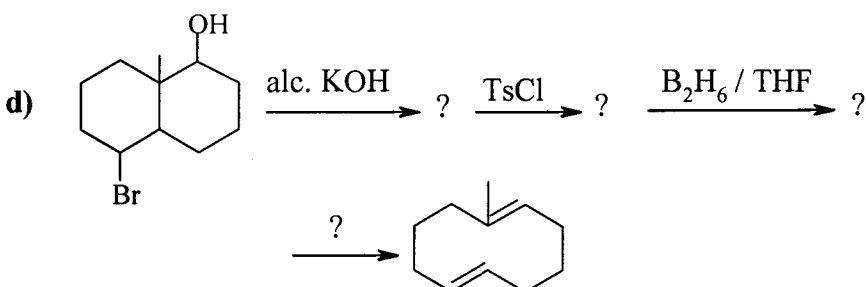
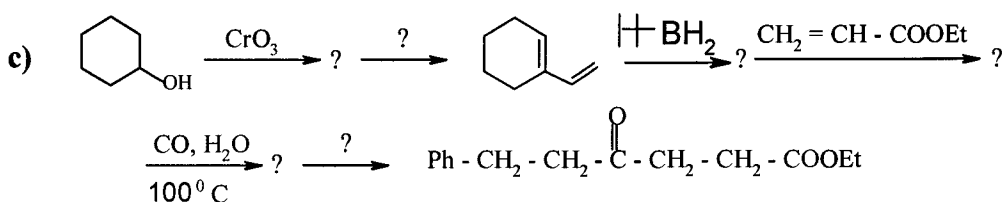
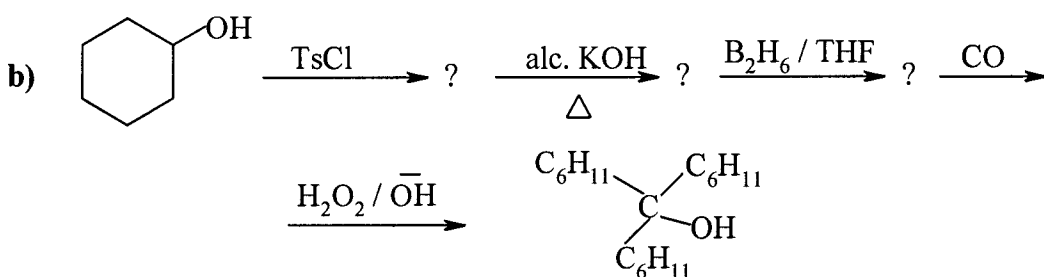
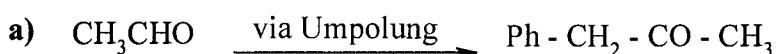
- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

Q.1 Explain ANY THREE of the following: [15]

- a) Carbonylation reactions of alkyl boranes.
- b) Role of in amino protection.
- c) Effect of temperature and pressure on "oxo" process.
- d) Hydrogen migration reactions using Rh (I) (III) catalyst
- e) Ene-yne metathesis using Ru - catalyst.

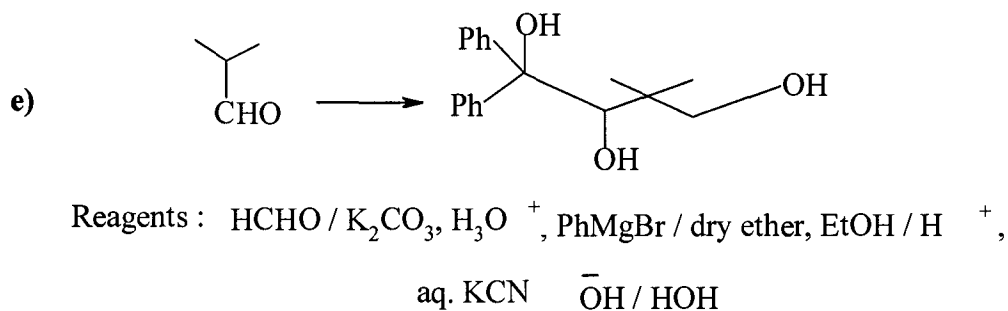
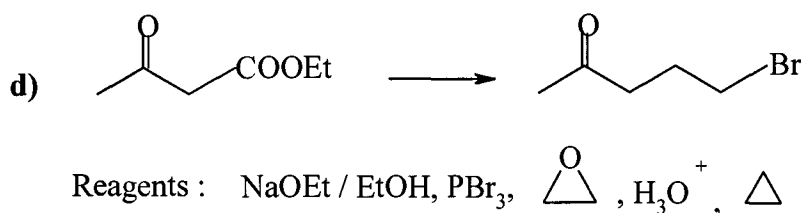
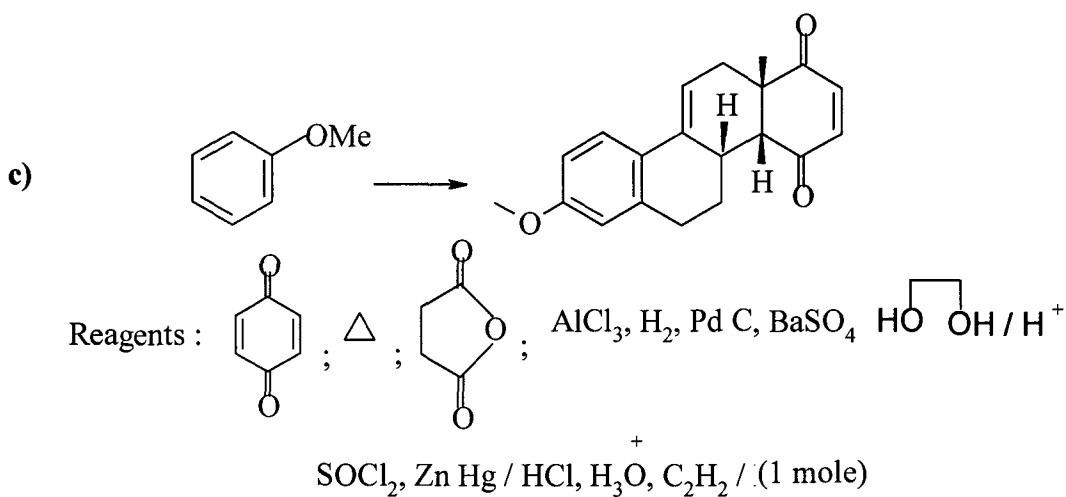
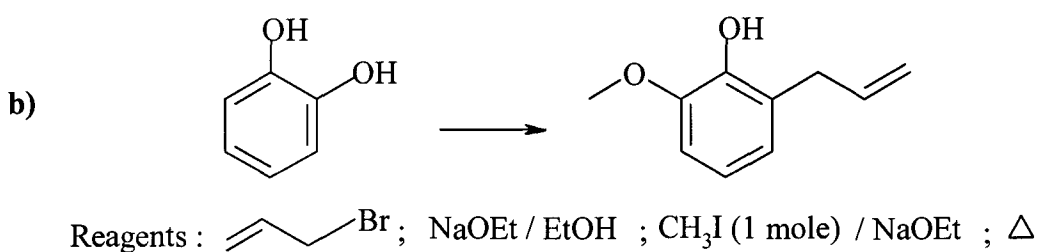
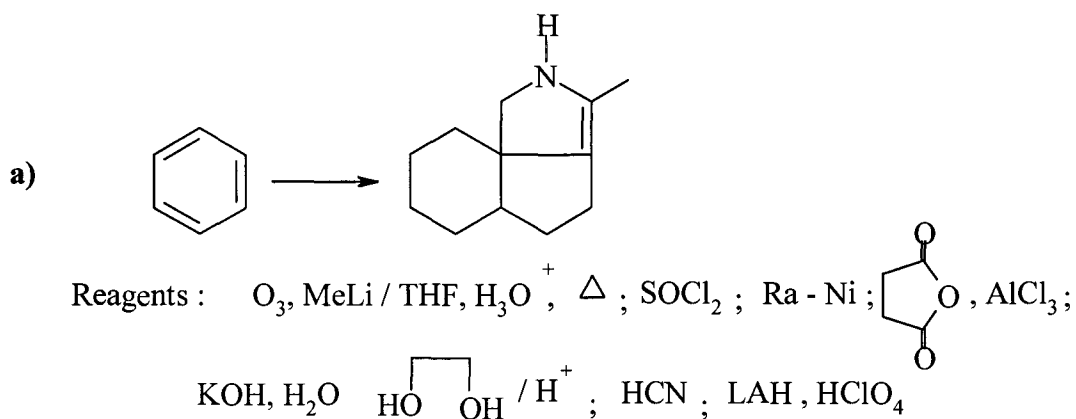
Q.2 Attempt ANY THREE of the following: [15]



P.T.O.

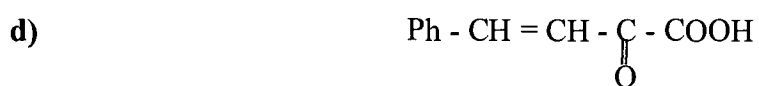
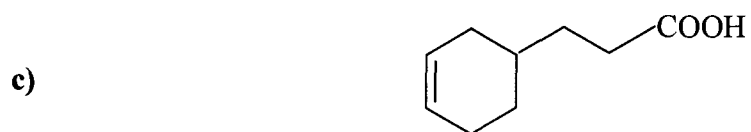
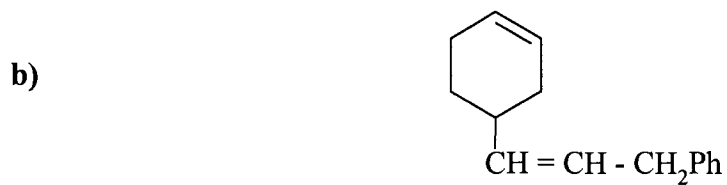
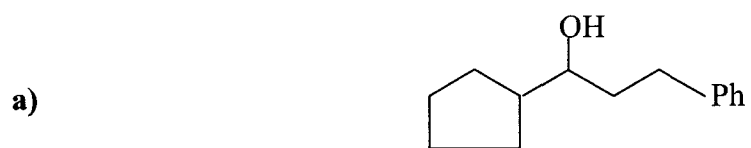
SECTION - II

Q.3 Attempt ANY THREE of the following; arrange the reagents in order to [15] achieve Target Molecule. Write all intermediate product/s:



Q.4

Give retro synthetic approach to synthesize ANY THREE of the following [15] compounds:



* * * *