



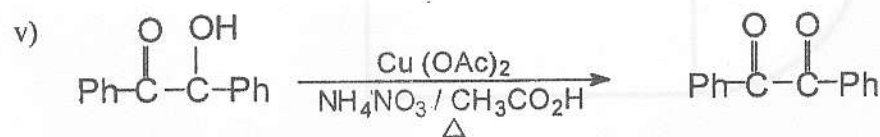
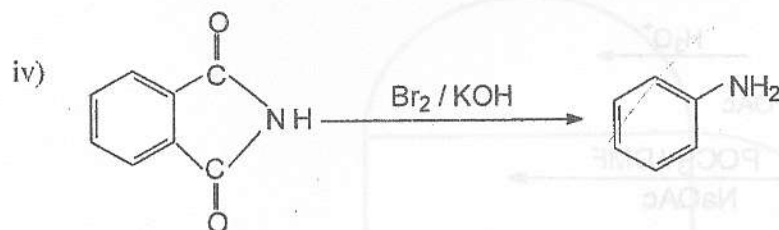
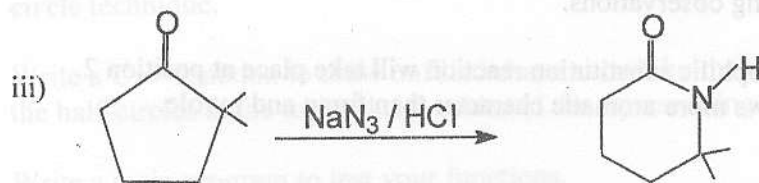
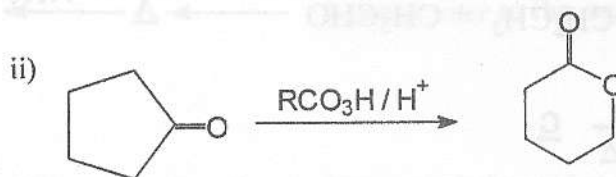
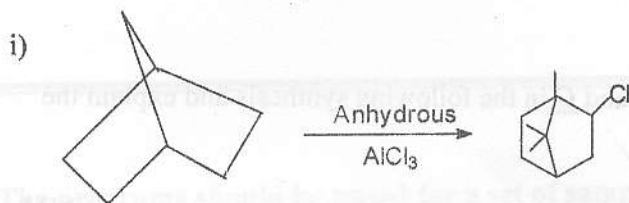
EASTERN UNIVERSITY, SRI LANKA
THIRD EXAMINATION IN SCIENCE
FIRST SEMESTER- 2003/2004 (Repeat)

CH 302 HETEROCYCLIC CHEMISTRY AND RE-ARRANGEMENT REACTIONS

Answer all Questions

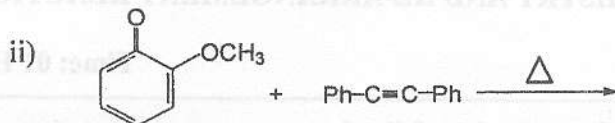
Time: 01 Hour

01) a) Suggest a plausible mechanism for each of the following rearrangement reactions.

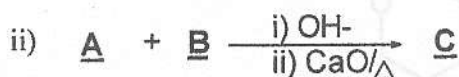
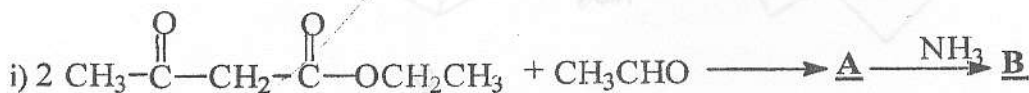


Cond.....

b) Predict the product expected in each of the following reactions.



02) a) Identify the compounds **A**, **B** and **C** in the following synthesis and explain the mechanism involved in (ii).



b) Explain the following observations.

- In pyrole electrophilic substitution reaction will take place at position 2.
- Thiophene shows more aromatic character than furan and pyrole.

c) Predict the major product expected in each of the following reactions.

