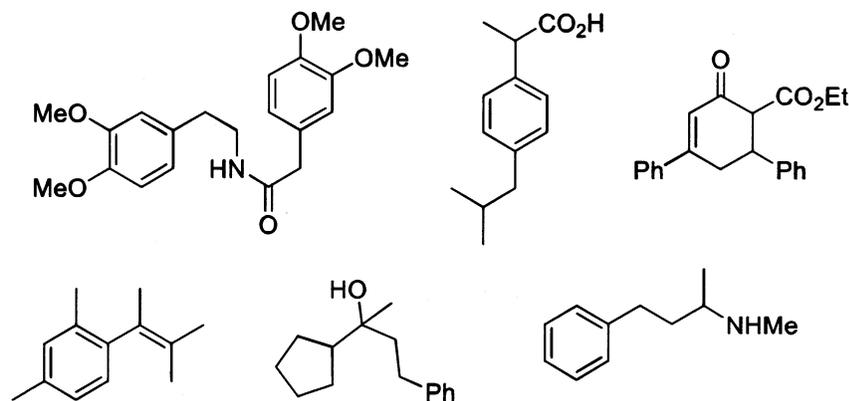
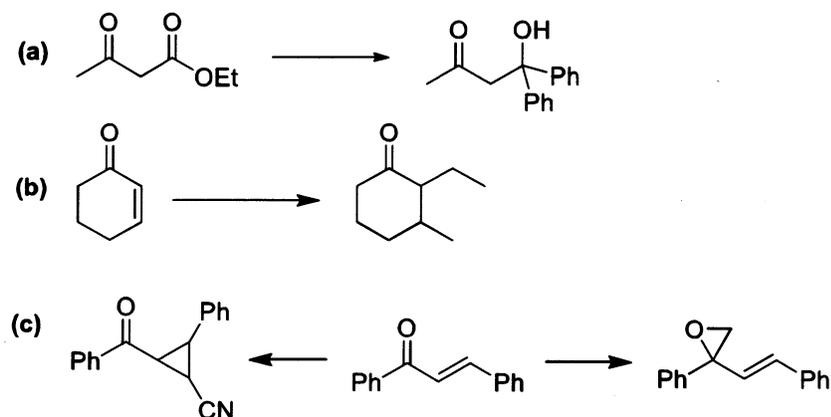


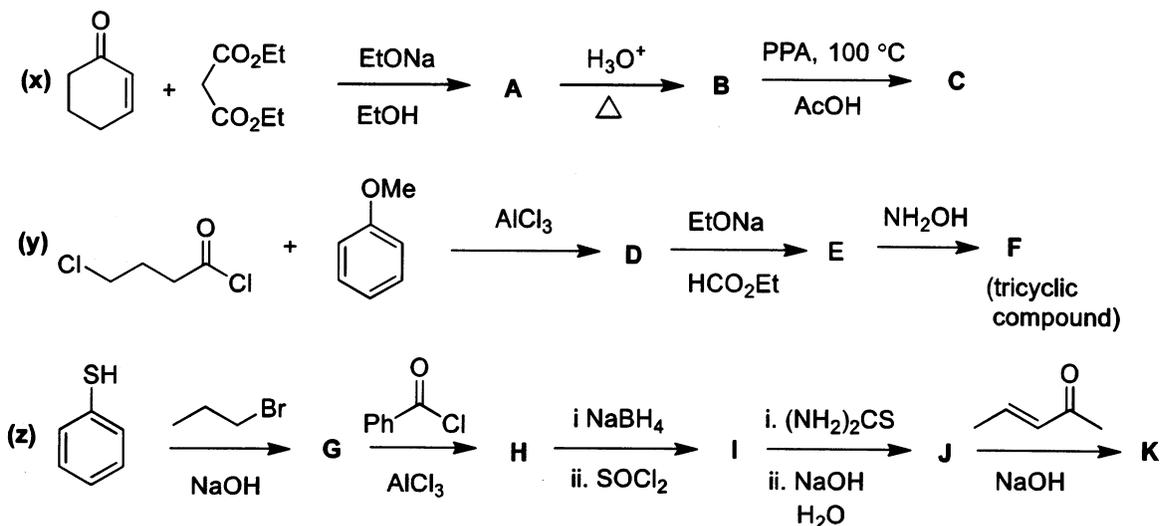
Q1. Suggest retrosynthesis and synthesis. (any 5, 20 marks)



Q2. Suggest suitable reagents/steps for the following transformations. Suggest mechanism. (any 2, 12 marks)



Q3. Predict the structures of the compounds in the following synthetic schemes. (any 2, 8 marks)



*Handwritten signature*

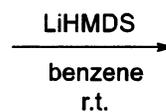
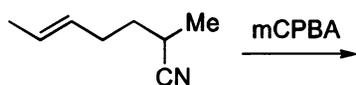
Name:

Roll no:

Q1. Find out the structures of A-J.

(20)

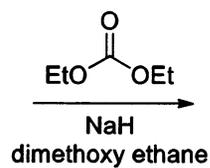
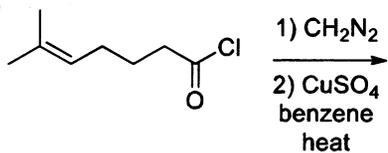
(a)



A

B

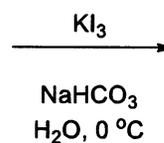
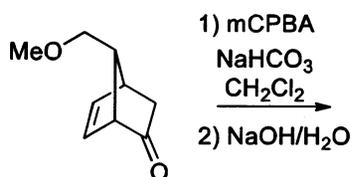
(b)



C

D

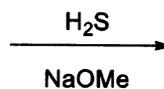
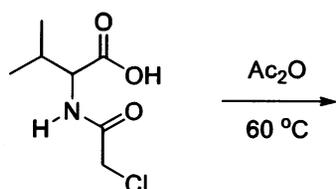
(c)



E

F

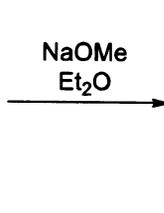
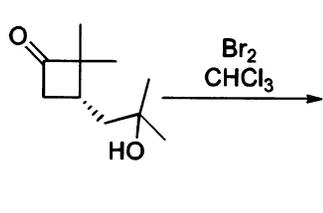
(d)



G

H

(e)

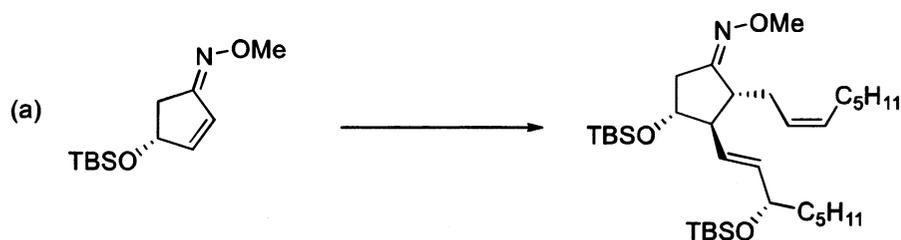


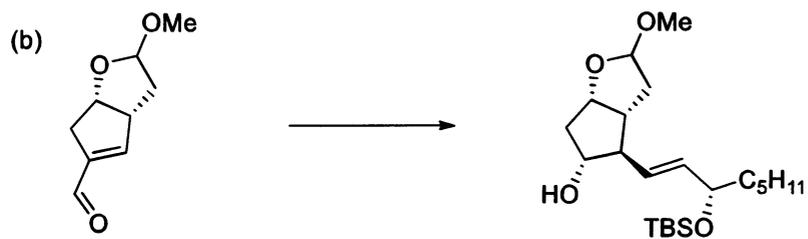
I

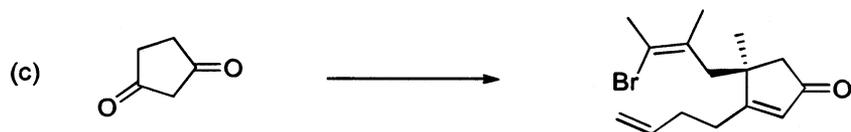
J

25/11/2018

Q2. Suggest suitable reagents/conditions/steps for the following transformations. (3 x 5 = 15)

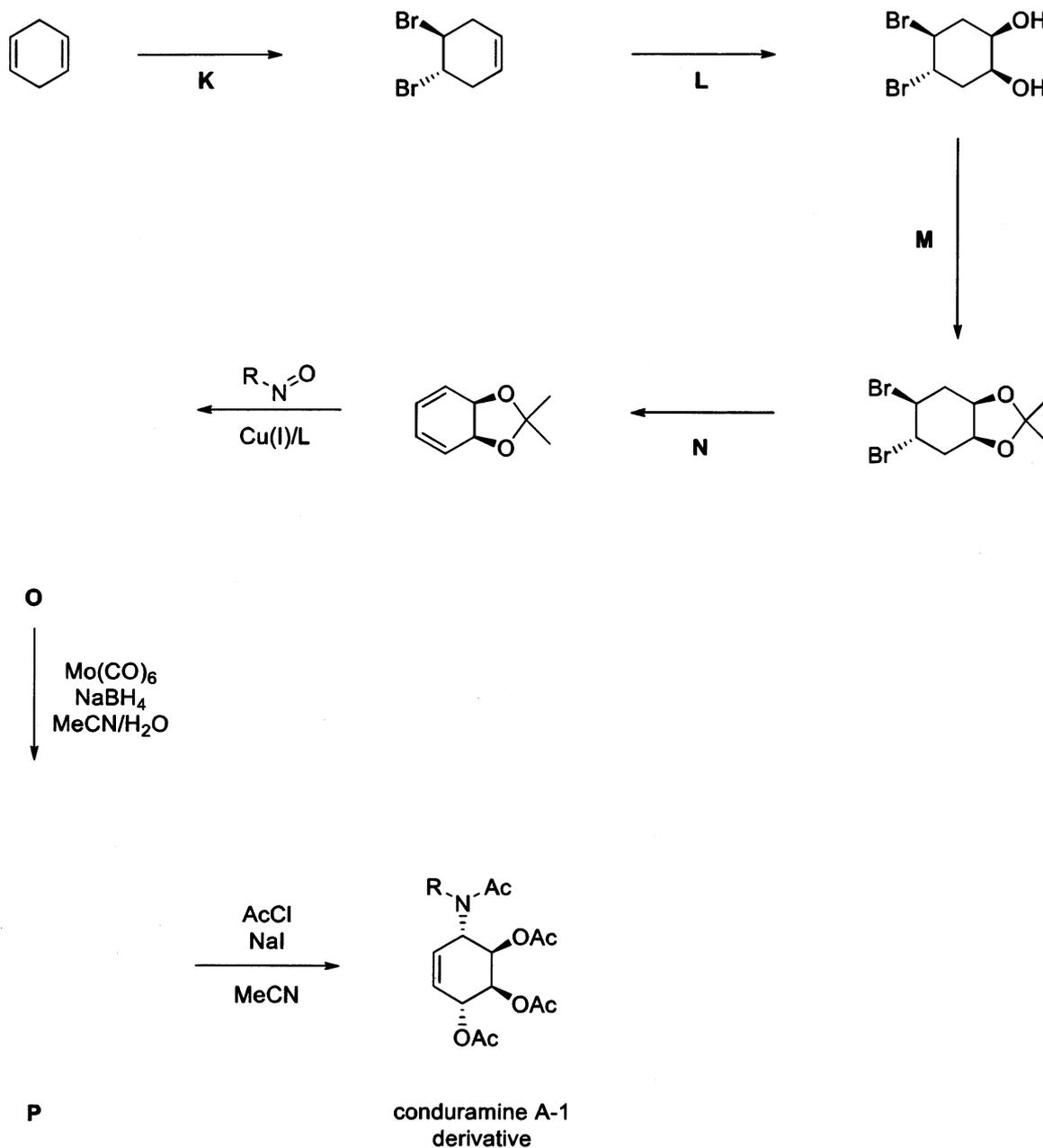






Q3. Suggest the reagents/conditions (K - N) and the intermediate (O - P) for the synthesis of conduramine A-1 derivative.

(7)



Q4. The following synthesis sequence leads to the synthesis of **Capnellene**, a naturally occurring hydrocarbon derived from *Capnella imbricata*, a species of soft coral found in Indonesia.

Find out the intermediates/reagents-conditions G-Y and suggest a mechanism for the last step. (18)

