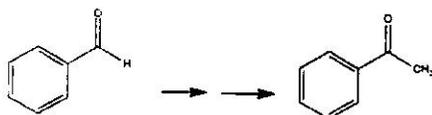
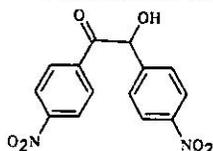


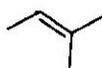
h) Complete the following

Q2. Answer any **FOUR** of the following: _____ (5×4=20)

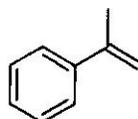
a) With the help of an appropriate name reaction write the reaction pathway for the synthesis of compound B. Also write the mechanism to support your answer.



b) What starting materials are needed to prepare the following compounds by using an appropriate name reaction? Also write the mechanism to support your answer.

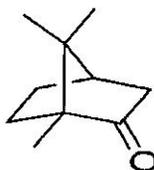


i



ii

c) Outline the steps involved in synthesis of the following compound.

d) α -Pinene on reaction with alcoholic sulphuric acid yields α -terpineol. State the analytical evidences obtained from this reaction in the structure elucidation of α -Pinene.

e) Outline the synthesis of ethyl acetoacetate. Also give a detailed mechanism.

f) Outline a systematic reaction pathway to prepare D-Arabinose from $C_6H_{12}O_6$