1. Synthesis of Compound A is considered as revolution in the chemical industry and one of the main raw material for the preparation of compound A is air. Initially, Osmium is used as the catalyst to prepare compound A. Later another catalyst B is developed by BASF Company for synthesis of compound A. Compound A can be further catalytically oxidized into compound C which is a raw material for many pharmaceuticals and fertilizers compounds. Compound C is concentrated by using compound D during its synthesis process. Compound A can be converted into compound E which is produced in our body. Compound A also plays a major role in the Salvay’s process. Based on the above information, answer the following questions. (Total – 35)

a) Name all the compounds (5): A) B) C)

D) E)