ayoum University

aculty of Science

Chemistry Department

!nd Year. Chem. / Geo.



Academic Year: 2011/2012

1st Semester 15/1/2012

Organic Chemistry

Time: 3 h.

Question No. 1:

What is the main products formed from the reaction of E.A.A. with:

1- One mole of alkyl halide.

2- Acetyl chloride.

3- Acetone.

4- Urea.

Question No. 2:

Give brief account on:

- a) Refermatisky reaction.
- b) Hellvolhard Zelinsky reaction.
- c) The stability of β Ketoacids.
- d) The oxidation of α- hydroxyl acid.
- e) The thermal behavior of dicarboxylic acids.

Question No. 3:

Show how can you elucidate the structure of ethyl acetoacetate.

Question No. 4:

Show how can you convert:

1- Ethyl acetate

into

E.A.A.

2- Diethyl malonate

into

Succinic acid.

3- Malonic acid

into

Glutaric acid.