



((Assessment of the final exam for the second semester))
Academic year 2016 -2017

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Q1// Compare between (Anisole and Nitobenzene) in regard by catalysis reaction ($\text{HNO}_3/\text{H}_2\text{SO}_4$), support your answer in writing chemical equation ?

(8 marks)

Q2// Give the structure of the following compounds? (choose ten only)

- (1) 3- Butyn-2-ol , (2) Glycerene , (3) O- Hydroxybenzoic acid , (4) Aniline, (5) Benzophenone
(6) Acetaldehyde , (7) Toluene , (8) Acetone, (9) Styrene, (10) P-Xylene, (11) Vinyl Bromide

(10 marks)

Q3/A / - Complete the following reaction:



(6 marks)

Q3/B / Write the step of Methane Chlorination ?

(4 marks)

Q4/ Give all the reaction steps for the preparation of the following compounds?

- 1- From benzene prepare : (a) Toluene (b) Nitrobenzene.
- 2- From acetylene prepare : Acetaldehyde
- 3- From benzene prepare : m-bromo nitro benzene
- 4- from 1,2-dibromo propane prepare : propyne

(12 marks)



Best of luck

