**Chemistry Department Practical Organic chemistry Time/ 1 h. Monthly Exam /3rd stage 29/11/2022**

**Name:**

|  |
| --- |
| **Q1/ answer the following with equation if required** 25M |

1. Role of acetic anhydride in preparation of succinic anhydride.
2. Explain (by mechanism or resonance) role HCl in preparation of benzilic acid?
3. If 0.005 moles of crude benzyl and 0.01 moles of urea are used during synthesis of dilantin in the presence of 4% NaOH as catalyst, find out the:
4. How many grams of dilantin will be obtained if the reaction gives 85% yield.
5. Number of ml. of NaOH for catalyzing the reaction.
6. Besides urea contains two nitrogen but considerd as weak nucleophile.
7. What is 1, 2- shift? Give an example?

**Q2/ Write the mechanism for the following reaction:**  10M



Good luck

Assis. Prof. Dr. Mohammed kareem Lec.Marlin Yousif Mr. Hiwa Shareef