

**Inter B. Sc. Examination, 2017
(2nd Semester)
CHEMISTRY (HONOURS)
Organic Chemistry Practical**

Time: Six hours on one day, three hours on the other day

Full Marks: 30

1. Prepare the organic compound (to be marked as "P") according to the following procedure and submit the product. 12
2. Estimate the total amount of glucose present in the supplied sample marked "E" using Fehling solution of known strength. 15
3. Laboratory Note Book 3

Procedure for Organic Preparation

Take the supplied sample "A" in a 100 mL round-bottomed flask fitted with a condenser. To it add "B" and reflux the mixture for 1 h. Cool the reaction mixture to room temperature and transfer it to a 250 mL beaker. Cool the beaker in ice-cold water and gradually add 10 % (w/v) aq. NaOH solution until the solution becomes alkaline. Filter the precipitated solid, wash with cold water and dry it in air and note the yield. Crystallize ~250 mg of the crude product from aqueous Ethanol and record its melting point. Submit both the crude and crystalline products.