Ref. No. Ex/INT/ CH/PR/H/1/2018

Inter B. Sc. Examination, 2018

(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 crude and crystallized products. *12*
2. Estimate the total amount of aniline present in the supplied sample marked "E" using bromate-bromide method. *15*
3. Laboratory Note Book. *03*

Procedure for Organic Preparation

Take the supplied organic compound "A" with 8mL of "**B**" in a dry 100mL conical flask, stir for a while and cool it in ice-salt bath to 5°C. Prepare a mixture of 1mL of "**B**" and 2mL of "**C**" in a dry test tube and cool it to 5°C. Add the aforesaid ice-cold mixture of "**B**" and "**C**" slowly (in drops) to the mixture of "A" in "**B**" (prepared in the conical flask) with constant stirring and maintain the temperature of the reaction mixture around 10-15°C. After complete addition, keep the reaction mixture at about 15-20°C for further 5 minutes. Then add the cold reaction mixture slowly dropwise with vigorous stirring to the crushed ice taken in a 250/500mL beaker. Allow the entire ice to melt and filter the solid product using water suction pump. Wash it thoroughly twice with little amount of cold water followed by cold 5% sodium bicarbonate solution (2 X 20 mL). Wash the solid again thoroughly with little amount of cold water, dry on a steam bath using a little amount of rectified spirit and record the yield of the product "**P**". Crystallize a small amount of "**P**" from rectified spirit and check its melting point. Submit both the crude and the crystallised products in duly labelled containers.