

B. Sc. CHEMISTRY EXAMINATION, 2022

(6th Semester, CBCS SYLLABUS)

GREEN CHEMISTRY PRACTICAL (DSE)

Organic Chemistry-VI

PAPER – DSE/Chem/PR/02

Unit – 602L-O

Time: Four hours

Full Marks: 50

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| 1. Prepare the compound P according to the following procedure. | 25 |
| 2. Laboratory Note Book. | 05 |
| 3. Viva-voce. | 10 |
| 4. Internal assessment. | 10 |

Procedure for the Preparation of **P**:

Add 1.0 gm of finely powdered potassium hydroxide to the supplied compound **A** taken in a hard-glass test tube. Put a cotton plug at the mouth of the test tube and heat it in a boiling water bath for 10 minutes. Meanwhile the texture of the material inside the test tube will be changed. Cool the reaction mixture to room temperature, dissolve the solid mass in the test tube in minimum amount of distilled water and thoroughly cool it in ice. Add concentrated hydrochloric acid to make the aqueous solution strongly acidic. Filter the solid product and wash with little amount of ice-cold water. Dry the product on steam bath with intermittent addition of few drops of rectified spirit. After drying, record the yield of the crude product **P**. Crystallize a small amount of **P** and check the melting point. Submit the crude product **P** and the crystallized **P** in duly labeled test tubes along with the yield of crude **P** and melting point of crystallized **P**.