

M. Sc (Chemistry) EXAMINATION, 2019(1st year, 1st Semester)**ORGANIC CHEMISTRY PRACTICAL**Time: Six hours
11.00 AM - 5.00 PM

Full Marks: 50

1. Identify the supplied organic compound marked "O" by qualitative analysis and submit two appropriate derivatives (preferably crystallized) of the sample. Report the melting points of the derivative. Return unused sample and submit the derivative (both crude and crystallized) of the sample. 20
2. Prepare the organic compound marked "P" as per the direction given below and submit the product. 5
3. Viva-voce 5
4. Laboratory Note Book. 5
5. Sessional 15

Direction for Preparation:

Take a mixture of compound "A" and "B" in a 100 mL round bottom flask fitted with a reflux condenser. Add 15 mL of acetic acid and 5 mL of water. The reaction mixture is refluxed for 25 minutes and then filter under hot condition and discards the residue. The filtrate is allowed to cool and crystals appear on cooling. After filtering through a Buchner funnel, wash with cold water to remove the acid (check with litmus), dry the filter cake on a sheet of filter paper, report the yield and mp of the crude product. Recrystallize a portion of the sample from aqueous alcohol and determine the mp.