

M. Sc (Chemistry) EXAMINATION, 2017(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:

Dissolve 800 mg of NaOH in 5 ml water taken in a 100 ml beaker, cool it to room temperature and then add 4 gms (a few pieces) of crushed ice. To this solution, add the supplied compound marked 'A', stir vigorously to dissolve the substances. Cool the mixture in an ice-bath, and then add 1 ml bromine at once from the burette while stirring vigorously. Stir for two more minutes after the addition. Then filter the precipitated product in a Buchner funnel and wash with ice-cold water, dry on a steam bath. Record the yield, melting point and submit the product "P".