

**I B.Pharmacy II Semester Regular Examinations, Oct/Nov 2013  
PHARM ORGANIC CHEMISTRY -II**

**Time: 3 hours**

**Max Marks: 75**

**Answer any FIVE Questions  
All Questions carry equal marks**

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- (a) Describe oxidation and dehydration of alcohols  
(b) Distinguish test for 1°, 2°, and 3° alcohols. [8+7]
- Compare the resemblance and difference properties of phenols with those of alcohols. [15]
- (a) Explain the Claisen rearrangement for the preparation of phenols.  
(b) Write a short note on stability of phenoxide ion. [8+7]
- Write the important methods of preparation of aldehydes and ketones. [15]
- (a) Write the reduction reactions of acetaldehyde.  
(b) Write the mechanism of the following  
(i) Clemmensen reduction with suitable examples.  
(ii) Wittig reactions. [5+10]
- (a) Write the hydrolysis, reduction reactions of esters.  
(b) Write an account of malonic and acetoacetic esters, their importance in synthesis. [8+7]
- (a) Discuss the basicity of amines. Explain why aliphatic-amines are stronger bases than ammonia.  
(b) Discuss the Hinsberg method of separation of mixture of amines. [8+7]
- (a) Define Isonitriles. Write any two important methods of preparation of Isonitriles.  
(b) Distinguish Nitriles from Isonitriles. Discuss the various functional reactions of Isonitriles. [8+7]

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