

Code No: B2104/R10

R10

II B.Pharmacy I Semester Supplementary Examinations, Dec 2013
ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- (a) Give the examples with structure for fused ring systems with one hetero atom and write a note on aromaticity of Indole
 (b) Write the reactions of Indole.
- (a) Discuss the structure and reactions of Benzimidazole?
 (b) Discuss the structure and reactions of Phenothiazine?
- Explain the following
 - Racemisation
 - Chirality
 - Sequence rules
 - Asymmetric synthesis.
- (a) What are monosaccharides? Give classification of monosaccharides with suitable examples.
 (b) Write a note on pharmaceutical importance of carbohydrates.
- Write briefly on:
 - Physical properties of Amino acids, polypeptides and proteins
 - Important reactions of Amino acids.
 - Isoelectric point.
- (a) What are glycosides? Classify them with examples?
 (b) Enzymatic hydrolysis
 (c) Characterization of lipids
 (d) Rancidity of oils and fats
- (a) Define the terms nucleic acids, nucleotides and nucleosides with examples
 (b) Write an account on structure of DNA & RNA
- Write the detailed mechanism and applications of:
 - Beckmann rearrangement
 - Phillips condensation reaction
 - Mannich reaction
 - Michael addition reaction
