Code No: B2104/R10

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

Time: 3 hours

Max Marks: 75

R10

Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

- 1. (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.
- 2. (a) Discuss the structure and reactions of Benzimidazole?
 - (b) Discuss the structure and reactions of Phenothiazine?

3. Explain the following

- a) Racemisation b) Chirality
- c) Sequence rules d) Asymmetic synthesis.
- 4. (a) What are monosaccharides? Give classification of monosaccharides with suitable examples.
 - (b) Write a note on pharmaceutical importance of carbohydrates.

5. Write briefly on:

- (a) Physical properties of Amino acids, polypeptides and proteins
- (b) Important reactions of Amino acids.
- (c) Isoelectric point.
- 6. (a) What are glycosides? Classify them with examples?
 - (b) Enzymatic hydrolys
 - (c) Characterization of lipids
 - (d) Rancidity of oils and fats
- 7. (a) Define the terms nucleic acids, nucleotides and nucleosides with examples
 - (b) Write an account on structure of DNA & RNA
- 8. Write the detailed mechanism and applications of:
 - (a) Beckmann rearrangement
 - (b) Phillips condensation reaction
 - (c) Mannich reaction
 - (d) Michael addition reaction

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