PY - 303

B.Pharm. III Semester

Examination, December 2012

Pharmaceutical Chemistry - IV (Org - II)

Time: Three Hours

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Maximum Marks: 70

Note: 1. Attempt any five questions.

- 2. All questions carry equal marks.
- 1. What is Hantzsch-Widman nomenclature system. Give a suitable example for fused and bridged heterocycles. 14
- Classify heterocycles? Discuss reactivity and tautomerism in aromatic heterocycles.
- 3. Discuss the structure of Pyrrole. Discuss mechanism of action of electrophilic substitution reaction and its reactivity and orientation in pyrrole.
- 4. Give electrophilic and nucleophilic substitution reaction in pyridine along with their mechanism. Add a note on basicity of Pyridine.

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- 5. Explain sigmatropic rearrangement and cycloaddition reactions with suitable examples and their mechanism. 14
- Give synthesis, chemical reactivity and medicinal applications of benzimidazole and benzothiazole.
- 7. Give 3 method of preparation for each-

14

- i) Nitro compounds
- ii) Cyanides
- iii) Isocyanides
- /8. Notes on (any two).

7x2

- i) Transition metal complex
- ii) Neighboring group effect
- iii) Coumarins

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