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Roll No

PY - 303

B.Pharmacy HI Semester

Examination, December 2013

Pharmaceutical Chemistry - IV (Organic Chemistry - II)

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions.

- 1. a) Write the theory of energy transfer characteristics of photoreaction.
 - b) Give reaction and mechanism for electrocyclic and cycloaddition reaction.
- a) Write synthesis, chemical reactivity and medicinal application of benzimidazole.
 - b) Give nomenclature and reactivity of sulphur containing compounds.
- a) Discuss the preparation and properties of oxazole and triazole.
 - b) Describe the electrophilic substitution in pyrrole, furan and thiophene.

 Give the heteroaromatic reactivity and tautomerism in aromatic heterocyclic compound. Discuss the strain bond angle and torsional strain in heterocyclic.

5. Write a note on:

 $7 \times 2 = 14$

- a) Neighboring group effect
- b) Catalysis by transition metal complex
- c) Reactivity of acridine
- 6. Give synthesis chemical properties and application of any two of following. 7×2=14
 - a) Pyrimidine
 - b) Imidazole
 - c) Benzotriazole
- 7. Compare the structure chemistry and properties of any two of following. 7×2=14
 - a) Pyridine

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- b) Pyrazole
- c) Quinoline
- 8. a) Give synthesis, chemistry and properties of cynaides. 7
 - b) Write a note on Nitro containing compound.

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