

QP CODE: 211006 (NEW SCHEME)

Reg.No:

Second Year B.Pharm Degree Supplementary Examinations February 2017

PHARMACEUTICAL CHEMISTRY III
(Advanced Organic Chemistry)

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain the E1, E2 and SN2 reactions falling under geometrical isomerism.
2. What do you mean by hydrogenation and dehydrogenation. Add suitable examples to explain the above synthetic tools.
3. Explain the preparation and important reactions of pyrrole and thiophene.

Short notes

(14x5=70)

4. Define the terms enantiomer and diastereomer. Explain with examples.
5. Describe the methods adopted for carrying out racemic modification.
6. Explain the process of determination of configuration.
7. Discuss in brief on geometrical isomerism with suitable examples.
8. List out the various stereospecific and stereo selective reactions.
9. How is reduction carried out with hydrazine and its derivatives.
10. The mechanism and applications of Hoffmann rearrangement.
11. What is the mechanism by which oxidation could be carried out with perchloric acid.
12. Explain Darzen's reaction.
13. The preparation and properties of Pyrrole.
14. What are the reactions of pyridazine and pyrimidine.
15. Distinguish between the properties of quinoline and isoquinoline.
16. Electrophilic substitution reactions and aromaticity of naphthalene.
17. Discuss on nomenclature and oxidation, reduction reactions of phenanthrene.
