

Second Year B.Pharm Degree Supplementary Examinations June 2019

Pharmaceutical Chemistry III  
(Advanced Organic Chemistry)

**(2012 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

**Essays**

**(3x10=30)**

1. Give one method of preparation of pyrazole and oxazole and discuss their chemical reactions.
2. Explain different types of reduction reactions with example
3. Explain the stereochemistry aspects of  $S_N1$  and  $S_N2$  reactions with an example.

**Short notes**

**(14x5=70)**

4. How do you prepare thiophene. Give reaction
5. Give two important reactions of isoxazole
6. How do you synthesize pyridine. Give any one characteristic reaction of pyridine
7. Mention any one method of preparation of quinazolinone and quinolone
8. Explain in detail the sequence rule
9. What is dehydrogenation. Explain with examples
10. What happens when phenanthrene is oxidized. Give chemical reactions
11. Any two important reactions of naphthalene
12. The mechanism of Mannich reaction with an example
13. Explain oxidation with lead tetra acetate. Give example
14. What you mean by racemic modification. Explain one method for its resolution
15. What is asymmetric synthesis. Give example
16. Walden inversion with example
17. What conditions to be fulfilled by a compound to exhibit geometrical isomerism

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