

**Second Year B.Pharm Degree Supplementary Examinations July 2018**

**PHARMACEUTICAL CHEMISTRY III**  
(Advanced Organic Chemistry)  
**(2010 SCHEME)**

**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Discuss the methods of preparation and reactions of quinolone
2. Explain the various methods of resolution of racemic modifications
3. Describe the modern theory of double bond and determination of configuration of geometrical isomers.

**Short notes****(14x5=70)**

4. Any two reactions of acridine
5. Define enantiomers and diastereoisomers
6. Any two method of synthesis of phenothiazine
7. Catalytic hydrogenation
8. What is chirality and mention its significance
9. Walden inversion
10. Explain conformational analysis of ethane
11. Give any two methods of preparation of oxazole
12. Explain the oxidative uses of lead tetra acetate
13. What happens when
  - Pyridine is oxidized with per benzoic acid
  - Pyrrole is reduced with nickel
14. Explain the nomenclature of poly nuclear aromatic hydrocarbons
15. Explain the optical isomerism of meso tartaric acid
16. Define and classify heterocyclic compounds with examples
17. Explain the stability of the possible conformations of cyclohexane

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