

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2020

ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) Write in detail on aromaticity of Pyrrole. (6M)  
b) Write methods of preparation of isoquinolone. Add a note on the significance of this ring in medicinal chemistry. (9M)
2. Write in detail on chemistry of (15M)  
(a) Pyrimidine (b) Benzimidazole
3. a) What is chirality? Discuss the conditions for any compound become optically active. (6M)  
b) Write a note on methods used for asymmetric synthesis. (9M)
4. a) Write in detail on ring structure and mutarotation of glucose. (8M)  
b) Discuss the chemistry of starch. Discuss its pharmaceutical significance. (7M)
5. a) Write in detail on methods used for synthesis of proteins. (8M)  
b) Discuss the amino acid sequencing methods used for protein analysis. (7M)
6. a) What are glycosides? Classify them with examples. Write a note on digoxin. (8M)  
b) Write principle, procedure and applications of acid value and peroxide value. (7M)
7. a) Write in detail on chemistry of Theobromine. (8M)  
b) Write brief account on structure and functions of RNA. (7M)
8. Write in detail on mechanism, reaction and industrial application of (15M)  
(a) Hoffman rearrangement  
(b) Michael addition reaction  
(c) Curtius rearrangement