

Code: 9R01302

R09

B.Pharm II Year I Semester (R09) Supplementary Examinations June 2018

**PHARMACEUTICAL ORGANIC CHEMISTRY – II**

(For 2009 (LC), 2010, 2011, 2012 regular & 2011 (LC), 2012, 2013 lateral admitted batches only)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Write the characteristic reactions of furan.  
(b) Give the characteristic reactions of isoquinoline.
- 2 (a) Write the characteristic reactions of thiazole.  
(b) Give the characteristic reactions of benzimidazole.
- 3 (a) What are enantiomers?  
(b) Give the application of sequence rules.
- 4 (a) What are Osazones?  
(b) Discuss structural features of either glucose or sucrose molecule.
- 5 (a) Discuss the physical properties of amino acids.  
(b) Classify proteins with examples.
- 6 (a) What are  $\alpha$  and  $\beta$  glycosidic linkages and how can they be hydrolysed enzymatically?  
(b) Discuss the significance of saponification value and also explain Rancidity for oils and fats.
- 7 (a) Discuss the chemical structural significance of caffeine.  
(b) Give a brief account of the DNA structure.
- 8 (a) Give the mechanism and application in synthesis for Beckmann rearrangement.  
(b) Write the mechanism and application in synthesis for Mannich reaction.

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