Code No: B2104/R10

II B.Pharmacy I Semester Supplementary Examinations, Jan - 2015 ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

R10

Time: 3 hours	Max Marks: 75
Answer any FIVE Questions	
All Questions carry equal marks $\star \star \star \star \star$	
 (a) Write the structure, numbering chemical reactions of Quinolin (b) Write the structure and Chemical reactions of Acridine 	ne [7+8]
2. (a) Discuss the structure and reactions of Benzimidazole?(b) Discuss the structure and reactions of Phenothiazine?	[8+7]
 3. Write a note on (a) Racemic mixture (b) Optical activity (c) Enantiomers 	
(d) chirality	[4+4+4+3]
4. (a) What are carbohydrates? Give various classes of carbohydra examples.	ates with suitable
(b) Explain pharmaceutical importance of carbohydrates.	[8+7]
 5. Write an account on: (a) Structure and stereochemistry of α-Amino acids. (b) Zwitter ionic nature of Amino acids. (c) Isoelectric point 	
(d) Pharmaceutical nature	[4+4+4+3]
 6. (a) Write a note on α,β glycosidic linkages and enzymatic hydrol (b) Give the principle and importance of : (i) Acid value (ii) Iodi (iii) Saponification value 	*
7. (a) Write the structures & uses of uric acid, caffeine, theophylline and theobromine	
(b) Write a brief account on structure of DNA and RNA	[8+7]
 8. Write the mechanism and applications of: (a) Beckmann rearrangement (b) Mannich reaction (c) Hoffmann rearrangement 	
(d) Schmidt reaction	[4+4+4+3]

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