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FACULTY OF PHARMACY B.Pharmacy 3/4 I - Semester (Main) Examination, October/November 2014			
Subject: Medicinal Chemistry – I			
Time: 3 Hours Max. Mark		70	
Note: Answer all questions. All questions carry equal marks.			
1	 (a) Define and give its significance of following: (i) Ionization (ii) Surface activity (iii) Hydrogen bonding (iv) lipophilicity (b) Give the applications of Bio-isosterism. 	(4 x 3) (2)	
	(c) Discuss in detail conjugation reactions involved in drug metabolism.(d) Write the importance of steric features of drugs.	(7) (7)	
2	 (a) Identity the following drug and give its structure and name. (i) Nitrite with vasodilator action (ii) Iomidazole derivatives with anti-hypertensive action (iii) Dihydropyridine derivative with anti arrhythmic action (iv) Steroidal compound with positive Ionotropic action 	(8)	
	(b) Write a note on HmG – CoA reuctase institutions. OR	(6)	
	 (c) Give the structure, synthesis MOA and uses of following: (i) Ticlopidine (ii) Captopril (iii) Nefidipine 	(3 x 4)	
	(d) How do you differentiate between cardienolides and Bufadinolides?	(2)	
3	 (a) Explain the S.A.R. of β-Adrenergic blocking agents. (b) Outline the synthesis mechanism of action (MoA) and uses of salbutamol mecamylamine HCI. 	(6) and (2 x 4)	
	(c) Add a note on ganglionic blocking agents.(d) Give the structure, MoA and synthesis of isoproferenol and meprobamata.	(6) (2 x 4)	
4	 (a) Give the structure, synthesis and adverse effects of (i) Amrinone (ii) Hydro chlorthiazide (iii) furosemide (iv) Glyclazide (b) Add a note on Anti-thyroidal agent. 	(4x3) (2)	
	 (b) Add a note on Anti-involdal agent. OR (c) Discuss in detail structural activity relationship for Tolbutamide ring. (d) Give the structure, synthesis and MoA of following: (i) Acetazolamide (ii) Prophylthiouracil (iii) Amiloride 	(2) (5) (3 x 3)	
5	 (a) Explain in detail S.A.R of H₁ – Anti histaminics. (b) Add a note on proton pump inhibitors. OR 	(10) (4)	
	 (c) Give the structure synthesis and MoA of following: (i) Ranitidine (ii) Omeprazole (iii) Diphenhydramine (d) List out the coagulation factors. 	(3 x 4) (2)	
