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GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – 5- EXAMINATION –WINTER - 2018 Subject Code: 250004 Date: 29/11/2018 Subject Name: Pharmaceutical Chemistry - VI (Medicinal)			
	2.	. Attempt any five questions Make Suitable assumptions wherever necessary Figures to the right indicate full marks.	
Q.1	(a)	Explain the following with reaction mechanism: a) Skraup synthesis b)Paal-Knorr synthesis	06
	(b)	Give the structure of: (1) Pyran (2) Triazole (3) Isoquinoline (4) Pyrazine (5) Piperidine	05
	(c)	Give TWO reactions of the following: a) Imidazole b)Pyridine	05
Q.2	(a)	Comments on the following a) Thiophene is more aromatic than furan b) Pyridine is more basic than Pyrrole c) Unionized drug is absorbed better than ionized drug	06
	(b) (c)	Give synthesis of : a) Ranitidine b) Chlorpheniramine Define expectorants and mucolytics. Explain expectorants in detail	05 05
Q.3	(a) (b) (c)	Discuss various Proton Pump Inhibitors Describe various drugs used in irritable bowel syndrome Classify antihistaminic agents and write a note on SAR of H ₁ receptor blockers	06 05 05
Q.4	(a)	Explain the effect of following parameter on biological activity. a) Complexation b) Hydrogen bonding	06
	(b)	Write a note on Antitussive agents.	05
	(c)	What are antiemetic agents? Classify them with examples	05
Q.5	(a)	Comment on following statements a) Imidazole is less basic than pyrazole.b) Indole is aromaticc) Thiophene is more reactive for electrophilic substitution than furan	06
	(b) (c)	Explain Radiological contrast media. What are eicosanoids? Write in brief about eicosanoid biosynthesis.	05 05
Q. 6	(a) (b) (c)	What is Bioisosterism? Classify and Explain in brief with examples. Give synthesis and use of Promethazine and Chlorcyclizine. Write a note on Diagnostic agents.	06 05 05
Q.7	(a)	Discuss Stereo chemical features of drug molecules influencing biological activity.	06
	(b) (c)	Write a note on geometric & optical isomerism. Explain Fischer-Indole synthesis with reaction mechanism.	05 05