S.Y.B.PHARM. SEMESTER-IV (CBCS - 2015 COURSE) : SUMMER - 2018

SUBJECT: PHARMACEUTICAL CHEMISTRY - VI (ORGANIC)

Time: 02.00 PM TO 05.00 PM Day : Saturday S-2018-3921 Max. Marks: 60 : 21/04/2018 Date N. B.: Q. No. 1 and Q. No. 5 are COMPULSORY. Out of remaining solve ANY TWO 1) questions from each Section. Figures to the right indicate FULL marks. 2) Answers to both the sections should be written in **SEPARATE** answer books. 3) **SECTION - I** Q. 1 Solve **ANY FIVE** of the following: (10)Write structure and properties for maltose. a) Write structure and properties for cellobiose. b) Explain acid-base properties of amino acids. c) What is peptide linkage? d) Explain the fehling's test of glucose. e) What is annomerization of glucose? Write detailed classification of Amino acids with structures. Q. 2 (10)Q. 3 Write a detailed note on chemistry of Glucose. (07)a) Explain the iso-electric point of Amino acids (03)b) Write a note on **ANY TWO** of the following: Q. 4 (10)Separation of Amino acids by electrophoresis Ruff degradation of carbohydrates b) Peptide bond formation in Amino acids c) **SECTION - II** Solve **ANY FIVE** of the following: (10)Q. 5 Draw structure and give numbering to following structures a) i) ii) Imidazole Pyrrole b) Name the heterocycle and give the numbering: (i) (ii)

	c) d)	What are phospholipids? Define the term and give the example;	
	e) f) g)	 i) Synthon ii) Retrosynthesis What is Fischer indole synthesis? Give structures of two Sulphur containing heterocycles. Why pyrrole undergoes electrophilic substitution reaction at 2-position? 	
Q. 6		Give any three methods of preparation and two chemical reactions of furan and pyridine.	(10)
Q. 7	a)	Explain rules of disconnections for retrosynthesis using synthesis of pyrimidine.	(07)
	b)	Give the numbering and corresponding drugs for following structure:	(03)
		i) Hydantoin ii) Quinoline	
Q. 8		Write a note on ANY TWO of the following:	(10)
	a)	Methods of preparation of Isoquinoline	
	b)	Chemical properties of Imidazole	
	c)	Fat soluble vitamins	
	d)	Synthon approach in synthesis	