

M-1612030701040300 Seat No. _____

M. P. M. (Sem. IV) (CBCS) Examination

May / June - 2018

Pharmaceutical Chemistry - IV (Biochemistry - I)

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Time: 3 Hours]			[Total Mar	rks : 80
Ins	truct	(2	1) Figure to the right indicate marks. 2) Answer any three questions from each Question one and question five are composed Draw neat and clean diagram where respectively. SECTION - I	pulsory.
1	Ans A. B. C. D. E. F. G.	What is Explain What is Define E Define: Define: F Explain	tautomerization ? : PDH complex. Ketonemia and ketonuria. cpimers with example. Catabolism and Anabolism. Rancidity and Saponification. : Von Gierke's disease. optical activity of sugar ?	14
3	A. B.	Discuss: in TCA of Write a swer the for Discuss: What is	ollowing questions: TCA cycles and calculate energetics cycle. note on derivatives of monosaccharides. ollowing questions: Test to assess liver function. enzyme inhibition? Write a detail note me inhibition.	7 6 7 6
4	Ans A. B.	swer the fo	ollowing questions : nd classify : Carbohydrates. Glyoxalic Acid Cycle.	7 6

SECTION - II

5	Answer any two out of three :					
	A.	Discuss about Embden - Meyerhof Pathway.				
	В.	Discuss biosynthesis of cholesterol in detail.				
	C.	Discuss biochemical functions, dietary sources, absorption and disease states of calcium.				
6	Ans	Answer the following questions:				
	A.	Discuss: Reactions of monosaccharides.	7			
	В.	Calculate: ATP generation in Glucose metabolism.	6			
7	Ans	Answer the following questions:				
	A.	What is lipid? Classify lipid with examples.	7			
	В.	Discuss biochemical functions, dietary sources and	6			
		disease states of Iodine.				
8	Ans	Answer the following questions:				
	A.	A. Explain: Vitamin - A as a coenzyme and their significance.				
	В.	Enlist different factors affecting enzyme activity.	6			
		How concentration of substrate affect enzyme activity	_			