

HJ-014-003409

Seat No.

Masters in Pharmacy Management (Sem. IV) (CBCS) Examination

May / June - 2017

BP403T: Pharmaceutical Chemistry - V

(Biochemistry - II)

Faculty Code: 014

Subject Code: 003409

Time: 3 Hours [Total Marks: 80

Instructions: (1) Figures to the right indicate marks.

- (2) Answers any three questions from each section question one and question five are compulsory.
- (3) Draw neat and clean diagram when required.

SECTION - I

1 Answer the following questions : (any seven)

14

- (a) Comment: Urea is the end product of protein metabolism
- (b) Give the function of Messenger RNA
- (c) Define: Zwitterion
- (d) What is meaning high Energy Compound? Classify high energy compound.
- (e) Comment : Glutamate is the only amino acid that undergo oxidative deamination.
- (f) What is Lesch-Nyhan Syndrome?
- (g) Write basic Principle of electrophoresis. Classify different techniques in electrophoresis?
- (h) What is hyperchromicity?
- (i) What is Isoelectric pH? Explain with example
- (j) Functions of protein.
- **2** Answer the following questions:
 - (A) Discuss concept of Lac operon

7 6

[Contd....

(B) Describe the role of PRPP in purine and pyrimidine synthesis

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3	Answer the following questions:		
	(A)	Define: Amino Acid. Discuss structure classification of Amino Acid.	7
	(B)	Write a note on Electron Transport Chain (ETC).	6
4	Answer the following questions:		
	(A)	Explain the Urea cycle.	7
	(B)	Explain in detail about secondary structure of proteins.	6
		SECTION - II	
5	Answer any two out of three:		14
	(A)	Short note on "Structure of DNA"	
	(B)	Classify amino acid based on polarity and nutritional value	
	(C)	Write in brief about gel filtration chromatography.	
6	Answer the following questions:		
	(A)	Write basic principle of electrophoresis. Classify	7
		different technique in electrophoresis?	
	(B)	Define term Bioenergetics and Oxidative	6
		phosphorylation. Write in brief about different hypothesis	
		for oxidative phophorylation Phosphorylation.	
7	Answer the following questions:		
	(A)	Explain the principle of polymerase chain reaction	7
	(B)	Explain process of DNA replication	6
8	Answer the following questions :		
	(A)	Discuss properties of Amino Acid	7
	(B)	Explain terms: Denaturation, Coagulation and	6
		flocculation.	