## F.Y.B.PHARM. SEMESTER-II (2011 COURSE) : SUMMER - 2018

Day: Date:		Saturday	ARMACEUTIC 5-2018-3947		<b>AISTRY-I</b> Fime: <b>10.00 AM TO</b> Max. Marks: 80	01.00 P
N.B:						
	1)	Question 1 and question		SORY, and out	of remaining solve an	У
	2)	<b>TWO</b> question from ear Figures to the right indices		S.		
	,	Answer to both the secti			ATE answer book.	
			SECTIO	N-I		
<b>Q.1</b>		Attempt ANY FIVE of	the following:			(10)
	a)	What are lysosomes?				
	b)	Define coenzymes and g	give two example	S.		
	c)	What is affinity matrix i	n affinity chroma	tography?		
	d)	State any one bio-analyt	ical application o	f enzyme.		
	e)	What are antimetabolite	s?			
	f)	Define iso-electric point				
Q.2		Answer ANY THREE	of the following:			(15)
	a)	Describe membrane strump.	ructure and exp	lain working o	of sodium-potassium	
	b)	What are lipids? Give th	eir classification	with examples.		
	c)	State classification of pr	oteins. Give exan	nples for each cl	ass.	
	d)	What are excitable mem	brane? Explain in	detail.		
2.3		Answer <b>ANY THREE</b> (	of the following:			(15)
	a)	What is enzyme in immobilization.	mmobilization?	Discuss diffe	erent methods of	
	b)	Describe biochemical me	orphology of mito	ochondria.		
	c)	How mixture of proteins	is separated on t	he basis of mole	cular weight?	
	d)	What is enzyme specific	ity? Explain in de	etail.		
2.4		Write short notes on <b>AN</b>	Y THREE of the	e following:		(15)
	a)	Allosteric Enzymes.				
	b)	Effect of pH on rate of e	nzyme catalyzed	reaction		
	c)	Isoenzymes				
	d)	Nutritional value of prote	eins			
			SECTION	I-II		
2.5		Attempt ANY FIVE of t	he following:			(10)
	a)	What is Michaelis-Mente	en Constant of en	zyme?		
	b)	What is an active site of	enzyme?			
	c)	What are essential fatty a	ncids? Give one e	xample.		
,	d)	State the structure of tryp	otophan and lysin	e		
	e)	State Edman's Reagent.				
	f)	What are prosthetic grou	ps?			
					P.	T.O.

	a)	What it diffusion? Explain different types of diffusion seen in biological systems.					
	b)	What is primary structure and how it is determined?					
	c)	Describe pharmaceutical used of proteins in detail.					
<b>Q.7</b>		Answer the following:	(15)				
	a)	Illustrate the principle of electrophoresis. How proteins are separated by electrophoresis.					
	b)	Describe the amino acid classification with examples.					
	c)	What is protein denaturation? Explain in detail.					
Q.8		Writhe Short notes on the following:	(15)				
	a)	Protein Data Bank					
	b)	Role of metal ion in protein structure					

(15)

**Q.6** 

Answer the following:

Electro-dialysis