

(New Course)																							
Гim	e: 2	$2\frac{1}{2}$ H	[ours]													[To	tal	Μ	arl	KS :	: 7	70
Inst	truct	ions	: (1) (2)	1	Tl	he	ri		t s:	ide				-				tot	al	m	ark	\mathbf{s}	of
1	Atte	empt	the fol	llo	ow	ing	g :															1	14
	(a)		wer th					ng	\mathbf{s}	ho:	\mathbf{rt}	qu	est	ioi	$\mathbf{n}\mathbf{s}$: ((all	l co	m	pul	sor	y)	4
		(1)	Define					תז	1.		1												
		` /	List s What							ıta	ıba	ses	3.										
		(4)								pe	epti	ide	s.										
	(b)	Ans	wer an	ıу	. 0	one	e o	of t	the	e f	olle	0 W :	ing	. 9	ue	sti	on.						2
	` '	(1)	Define	-											•								
		(2)	Doma	iin	ns	of	C	olio	cin	ı a	and	l it	ts :	fuı	nct	ior	ıs.						
	(c)	Ans	wer an	ıу	C	ne	e o	of t	the	f	follo	0 W :	ing	g q	ιue	sti	on.	•					3
		(1)	Expla			_	_																
		(2)	Give	a	b	rie	f r	not	e (on	ı C	atl	nel:	ici	din	ıs.							
	(d)	Ans	wer an	ıy	C	ne	e o	of t	the	f	follo	ow :	ing	g q	ue	sti	on.	•					5
		(1)	Expla																_				
		(2)	Bioact Peptio			-	_			un	niti	es	ar	nd	Cł	nal	.ler	iges	s]	Pla	\mathbf{nt}		
2	Atte	empt	the fol	llo	οw	ving	g :															1	14
	(a)	Ans	wer th	ıe	fo	ollo	wi	ng	\mathbf{s}	ho	\mathbf{rt}	qu	est	ioi	ns	: ((all	l co	m	pul	sor	y)	4
		(1)	Myoto Toxin							-	У _				_	an	d	Mu	sh	\mathbf{r} oo	m		
		(2)	Name		-						me	ed	by	m	ıus	hr	oor	n.					
		(3)	Allost insect		tin	n ł	has	S 8	abi	ilit	ty	to	iı	nh	ibit	t .				_	in		
		(4)	What	is	.s	RP	CI	На	an	d	PΓ	Н	?										

	(b)	Ans	wer any one of the following question:	2								
		(1)	Define Bombesin and what its penultimate residues									
			of Bombesin peptides?									
		(2)	What is the main function of scorpion peptides?									
	(c)	Ans	wer any one of the following questions.	3								
		(1)	Explain various types of Alostatin family.									
		(2)	Give a brief note on Crustacean bioactive peptide.									
	(d)	Ans	wer any one of the following question.	5								
		(1)	Explain about Bombesin peptides and its types.									
		(2)	Explain different type of peptide vaccine delivery.									
3	Atte	empt	the following:	14								
	(a)	Ans	Answer the following short questions: (all compulsory) 4									
		(1)	Chemokines name derived from									
		(2)	CCK functions as									
		(3)	What is personalized medicine?									
		(4)	Define Exorphins.									
	(b)	Ans	wer any one of the following question.	2								
		(1)	What is Leptin?									
		(2)	What are the main function of BBB?									
	(c)	Ans	wer any one of the following question.	3								
		(1)	What is the role of chemokines in AMP?									
		(2)	Adrenomedullin and IGC. Explain.									
	(d)	Ans	wer any one of the following question.	5								
		(1)	Explain peptides and sleep, peptides and stress,									
			peptide and temperature.									
		(2)	Explain In Silico Search for Biologically Active									
			Peptides.									

4	Attempt the following: 14										
	(a) Answer the following short questions: (all compulsory) 4										
		(1)	What are Aptamers and an example								
		(2)	What are the recent approaches for metabolite								
			identification ?								
		(3)	Name the enzyme and biomolecule formed by								
			Psychrophiles.								
		(4)	The removal of mass spectral complication due to								
			the presence of isotopic clusters are								
			called								
	(b) Answer any one of the following question.										
		(1)	Define Secretomics.								
		(2)	Define Metabolomics.								
	(c)	wer any one of the following question.	3								
		(1)	Explain extracellular microbial metabolomics.								
		(2)	Explain some applications of metabolomics in								
			clinical and biomedical research.								
	(d)	Answer any one of the following question.									
		(1)	Explain survival mechanism in Extremophiles.								
		(2)	Extremozymes and its industrial application.								
5	Attempt the following:										
	(a) Answer the following short questions: (all comput										
		(1)	What is Conotoxin?								
		(2)	What is APID ?								
		(3)	Three dimension standardization of Network based								
			proteomics are,,,								
		(4)	Modified approach based on GSEA-SNP for meta-								
			analytics data is MAGENTA (true/false)								

- (b) Answer any **one** of the following question.
 - (1) Define Interactome and Interactomics.
 - (2) What is Arena3D and BIANA?
- (c) Answer any **one** of the following question.
 - (1) Explain Integrating networks and proteomics.
 - (2) What are the two approaches of pathway analysis?
- (d) Answer any **one** of the following question.
 - (1) Explain the analytical methods to detect pathwayphenotype relationship.
 - (2) Explain in detail the applications of interactome.

2

5