## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-2 EXAMINATION-Oct 2018 BT/BTDD VII<sup>TH</sup> Semester B1WBT732 MAX MARKS: 25

COURSE CODE: 18B1WBT732

COURSE NAME: PEPTIDE THERAPUETICS

**COURSE CREDITS: 3** 

NOTE: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.		
-	nswer the following questions.	[Co V]
a)	What happen if a peptide A with disulphide bond reacts with mecaptoeth	anol followed by
	reaction with iodoacetate?	[1]
b)	What are the general rules for protein folding	<i>if</i> [1]
c)	What is the role of following reagents on peptides a) cyanogens Bromide	b)
	flurodinitrobenzene c) Carboxpeptidase A d) Carboxpeptidase B	[2]
d)	Why protecting group are mandatory in peptide synthesis?	[2]
e)	Calculate the axial length of an alpha helix containing 82 amino acids. How le	ong would be the
	peptide chain if it were fully extended?	[2]
f)	) List problems associated with peptide as drug candidates. What are the ways to tackle thes	
	problems?	[3]
g)	g) Amino acid analysis of 1.0 mg of pure enzyme yielded 116.2 μg of leucine (MW =131.2) and 7	
61	μg of tryptophan (MW =204.2). What is the minimum MW of the enzyme?	[3]
	μg of tryptophian (www -204.2). That is the minimum with a time one-y-more	
Q2. How angiotensin-1 enzyme inhibitory peptides work? [Co IV] [2]		
		(Ca III [2]
Q3. W	hat are the advantages and disadvantage of peptides versus small molecule?	[Co II] [3]
Q4. What are peptidomimetics? How they are classified? Explain mode of action of antifungal peptides		
or peptidomimetics? [Co IV] [3]		
Q5. Explain mechanism of action of antimicrobial peptides briefly. [Co IV]		