

MBH-003-001210 Seat No. _____

B. Sc. (Sem. II) (CBCS) Examination

March / April - 2018

BT - 201 : Fundamentals of Biochem, Biocomputing & Biostat

(Old Course)

Faculty Code: 003 Subject Code: 001210

		•	
Γim	e : 2	$\frac{1}{2}$ Hours] [Total Marks:	7 0
Inst	ruct	ions: (1) Q. 1 is compulsory, one mark questions 20 marks.	of
		(2) Figures to the right indicate marks.	
1	One	mark objective Questions:	20
	(1)	Who discovered the double helical structure of DNA?	
	(2)	The optical rotation of β -D-Glucose is	
	(3)	Give the full form of URL.	
	(4)	The concept of pH was introduced by	
	(5)	Each turn of α -helix contain amino acids.	
	(6)	Which functional group present in proline?	
	(7)	The value of probability is ranging from to	
	(8)	Water is the universal solvent. TRUE/FALSE	
	(9)	According to Lewis theory, are electron acceptor.	
	(10)	Which polysaccharide forms a gel around the ovum?	
	(11)	MS-Excel worksheet contains rows and columns.	
	(12)	The lack of symmetry in a frequency is known as	

	(13)	The	nucleoside	e consists of	and	·
	(14)		is	s the heart of compu	ıter.	
	(15)		=	ure at which half of t is known as		ture
	(16)	Whi bond		acid involved in for	rmation of disul	lfide
	(17)	File	extension	n for web page is	·	
	(18)	RNA	A follow t	he Chargaff's rule. '	ΓRUE/FALSE.	
	(19)	The	deficiency	y of ascorbic acid ca	use	.•
	(20)	hol in				
2	(A)	Writ	te any th	ree out of six:		6
		(1)	What is	peptide bond?		
		(2)	Define:	Buffer.		
		(3)	Write ab	out email.		
		(4)	Define:	Median.		
		(5)	What is	proteoglycan?		
		(6)	What is	hydrogen bond?		
	(B)	Writ	te any th	ree out of six:		9
		(1)	Give the	difference between	DNA and RNA	•
		(2)	Describe	Properties of amino	acids.	
		(3)	Explain:	Ionic Bond.		
		(4)	Write a	note on correlation	and regression.	
		(5)	Describe	HTML.		
		(6)	Explain:	Cholesterol.		
	(C)	Writ	te any tw	o out of five:		10
		(1)	Explain:	Structure of protein	•	
		(2)	Explain:	Classification of lipi	d.	
		(3)	Write a	note on properties of	f water.	
		(4)	Explain:	Microsoft PowerPoin	ıt.	
		(5)	Explain:	Water soluble vitam	nins.	
MBE	I-003	-0012	10]	2]	Contd

(A)	Writ	e any three out of six:	6
	(1)	What is ribozymes?	
	(2)	What is denaturation and renaturation?	
	(3)	Define: Epimers. Give its example.	
	(4)	Define: Essential amino acid, asymmetric carbon.	
	(5)	What is variance? Give its equation.	
	(6)	State Chargaff's rule.	
(D)	XX 7 . *4	41	0
(B)		·	9
	(1)	Write a note on DNA double helical structure.	
	(2)	Explain: Parts of computer.	
	(3)	Write about laws of thermodynamics.	
	(4)	Find the standard deviation of the following data: 48, 43, 65, 57, 78, 59, 31, 60, 37, 48	
	(5)	Explain structure and function of t-RNA.	
	(6)	Write about derivatives of monosaccharide.	
(C)	Writ	e any two out of five :	10
(-)		·	
	` '	•	
	` '	•	
	` ,		
	(A) (B)	(1) (2) (3) (4) (5) (6) (B) Writ (1) (2) (3) (4) (5) (6) (C) Writ (1) (2) (3) (3)	 (1) What is ribozymes? (2) What is denaturation and renaturation? (3) Define: Epimers. Give its example. (4) Define: Essential amino acid, asymmetric carbon. (5) What is variance? Give its equation. (6) State Chargaff's rule. (B) Write any three out of six: Write anote on DNA double helical structure. Explain: Parts of computer. Write about laws of thermodynamics. Find the standard deviation of the following data: 48, 43, 65, 57, 78, 59, 31, 60, 37, 48 Explain structure and function of t-RNA. Write about derivatives of monosaccharide. (C) Write any two out of five: Explain: Covalent Bond. Explain: Polysaccharide. Write a note on DNA as genetic material.

(5) Discuss about internet.