

GBCS SCHEME

18BT34

third Semester B.E. Degree Examination, July/August 2021 **Introduction to Biomolecules**

Time: 3 hrs.

MGALOR

Max. Marks: 100

ce.			Note: Answer any FIVE full questions.	
olank pages. 50, will be treated as malpractice.	1	a.	Define and classify MonoSaccharides, with suitable examples.	(10 Marks)
		b.	Write short notes on:	
ited a			i) Essential and non essential fatty acids ii) Iodine number.	(10 Marks)
ss. e trea	2	a.	Define and classify Polysaccharides. Explain Homo polysaccharide in detail tak	ing any one
oage ill b			suitable example.	(10 Marks)
completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. $\frac{1}{2}$ revealing of identification, appeal to evaluator and /or equations written eg. $42+8=50$, will be the second of identification appears to evaluate and $\frac{1}{2}$ or equations written eg. $\frac{1}{2}$.		b.	Define and classify lipids, with suitable example.	(10 Marks)
ng h	3	a.	Explain Secondary Structures of Proteins.	(10 Marks)
naining 42+8		b.	Explain Ramachandran plot in detail.	(10 Marks)
rem eg,				
the	4	a.	Describe the Thermodynamic aspect of Protein folding.	(10 Marks)
s on wri		b.	Discuss the structure of fibrous protein taking Kertain as an example.	(10 Marks)
line			No. of the second secon	
oss	5	a.	Explain Watson and Click model of DNA.	(10 Marks)
al cr or ea		b.	Write the structures for the below mentioned base pairing: i) Adenine and Thymine ii) Guanine and Cytosine iii) Adenine and Ura	oil
nog nog/			i) Adenine and Thymine ii) Guanine and Cytosine iii) Adenine and Ura	(10 Marks)
/ dia .or a				
draw	6	a.	Explain the melting curves of DNA and the factors affecting it.	(10 Marks)
ily o		b.	With a neat labeled diagram, explain Secondary structure of t - RNA.	(10 Marks)
ilsor al tc				
completing your answers, compulsorily draw diagonal cross lines on the remrevealing of identification, appeal to evaluator and /or equations written eg.	7	a.	Explain the chemical basis for the large free energy change associated with ATF	hydrolysis.
c, co		1	Funda is detail Doub Boosties	(10 Marks) (10 Marks)
wers		b.	Explain in detail Dark Reaction.	(10 Marks)
ans ntifi	8	а	What are High Energy Compounds? Give the chemical basis for High Energy Co	mpounds.
our	O	4	That are ringh Energy compounds on a second of the second	(10 Marks)
ng y g of		b.	Explain Z – Scheme of Photosynthesis.	(10 Marks)
oleti				
com	9	a.	With neat labeled diagram, explain Fluid Mosaic model for biological membrane	
On c Any		b.	Explain different types of transports in biological membrane.	(10 Marks)
1. 6	10		Explain the Mechanism of Na ⁺ / K ⁺ ATPase.	(10 Marks)
ote :	10	a.	- 1 1 C 1 T 1 time Dungage	(10 Marks)
Ž		b.	Explain the fole of transport involved in orginal transaction froecos.	(
Important Note : 1.				
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