

Printed Pages: 4			277		NBT-303
(Fo	llow	ing Paper I	D and Roll N Answer B		led in your
Paper ID: 154303			Roll No.		
			B. TECH.		
	(SE	M. III) THE	ORY EXAMI	NATION,	2015-16
		F	BIOCHEMIST	RY .	
[Time:3 hours]			1	[Maximum	Marks:100]
			Section-A	•	
Note			orts. All parts c part in short.	arry equal	marks. Write
1.	Put	True (T) or	False (F) in the	e space :	(2x10=20)
	(a)	The nucleosome consists of core of eight sub-units of protein called histones containing DNA. ()			
	(b)		ally occuring y pituitary glan		
	(c)		ophoresis in pr on the basis o		DS separates
1200			(1)		P.T.O.

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1200 \subseteq Ξ (<u>f</u>) **®** $\widehat{\exists}$ <u>e</u> <u>a</u> Pyrimidines and purines which contain -NH₂ group Base composition of DNA varies from species to species. structures in protein. β-structure is one of the most important secondary group. Hypoxanthine is derived from adenine by Ceruloplasmin is a protein which transports zinc. replacement of its amino group with methoxy Myoglobin was the first protein for which the three are weakly basic. The amino terminal residue in a polypeptide chain crystallography. dimensional structure was worked out by X-ray can be determined by 1, fluoro, 2, 4 dinitrobenzene $\overline{2}$ **NBT-303**

Attempt any five questions from this section: $(10 \times 5 = 50)$

Explain the principle of Capillary Electrophoresis.

2

structure of proteins? How is Ramchandran Plot used in determining Secondary

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How glucokinase and insulin regulate blood glucose levels?

4

What is Henderson Hasselbach equation?

S

and quanidine hydro chloride. Explain the differences of denaturation of protein by urea

6

Define the reasons for Wobble effect

7.

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- protein. Cation-exchange resins be used for purification of
- Explain giving suitable examples. What do you understand by homologous proteins.

9.

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Section-C

Attempt any two questions from this section. (15x2=30)

- 10. Describe hemoglobin structure and its role in oxygen transport and release.
- 11. Describe two examples of diseases caused by altered protein conformation.
- 12. Explain De novo salvage pathways of pyrimidine nucleotides.



(4) **NBT-303**

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