## 2021

## B.A./B.Sc. Semester 5 Examination University of Calcutta CHEMISTRY – GENERAL INTERNAL EXAMINATION

Paper : SEC-A2 F.M. – 10

## FAKIR CHAND COLLEGE CENTRE (C551)

Choose the correct option in each case and report (no need to write the answer in sentence):

1x10

## **ANSWER ALL THE QUESTIONS**

I.	The tertiary structure of proteins is stabilized by		
	a) hydrogen bonding b) disulphide bridge c	) both (a) and (b)	
2.	Denaturation of protein means		
	<ul><li>a) its quarternary and tertiary structures are broken down</li><li>b) its quarternary, tertiary and secondary structures are broken down</li><li>c) all the constituent amino acids are separated out</li></ul>		
3.	Isoelectric point of an amino acid is that where		
	a) the amino acid has no net charge		
	b) both the α-amino and carboxyl groups exist in non-ionic form		
	c) none of the above		
4.	4. Myosin is		
	a) a globular protein b) a fibrous protein c	) an intermediate protein	
5.	The prosthetic groups of conjugate proteins may be		
	a) metal ions b) phosphoric acids c) both (	a) and (b)	
6.	The function of Actin is		
	a) transportation of materials in cells b) force	generators of muscles	
	c) storage of metal ions and amino acids in cells		
7.	. Sephadex can be used as a stationary phase in		
	a) Gel filtration chromatography b) Affinity chromatography	matography	
	c) Ion-exchange chromatography		
8.	<ul> <li>In SDS-PAGE of proteins, β-mercaptoethanol is used</li> <li>a) to disrupt disulphide bridges necessary for protein denaturation</li> </ul>		
	b) to disrupt hydrogen bonds	,	
	c) to break electrostatic interactions		
9.	Protein motifs are the		
		ernary structures of proteins	
	c) active sites of proteins		
10.	0. Tay-Sachs disease occurs from the		
		anglioside breakdown	
	c) disorder in cerebroside breakdown		