### AQ-944

# M.Sc. (Part-I) Semester-II (CBCS Scheme) Examination

#### PHARMACEUTICAL CHEMISTRY

#### Paper-2 SA 1

(Biochemistry)

(Diochemistry)						
Tim	ne : T	hree Hours] [Maximum Ma	rks : 80			
	Not	te:- ALL questions are compulsory and car marks.	ry equal			
1.	(a)	Enlist basic amino acids. Give classificat				
		functions of amino acids.	5			
	(b)	Mention colour reactions of proteins.	5			
	(c)	Describe structure and function of haemogl	obin. 6			
OR						
	(p) Write in brief on protein denaturation and renaturation.					
	<b>a</b> >		5			
	(q)	What are peptide bonds? Describe their fu	nctions.			
	(D	. 1	5			
	(r)	Write in brief Ramachandra Plot.	6			
2.	(a)	How enzymes are classified? Describe mechanism				
	of enzymatic reaction. Write a note on Mich					
		Menton Equation.	16			
OR						

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(Contd.)

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	(b)	Mention structure and function of FMN and F Describe mechanism of action of Carboxypeptic	dase.			
			16			
3.	(a)	Describe Recombinant DNA technology in de	tail.			
			16			
	OR					
	(b)	Use of enzymes as target for drug designing - Dis	cuss.			
		Write a note on clinical use of enzymes and en	zyme			
		therapy.	16			
4.	Wri	te in brief:				
	(a)	Glycolysis	5			
	(b)	DNA polymerases	5			
	(c)	Genetic code.	6			
	OR					
	(p)	Citric acid cycle	5			
	(q)	Mutarotation	5			
	(r)	Aminoacyl RNA synthesis.	. 6			
5.	(a)	Describe membrane transports Na <sup>+</sup> -K <sup>+</sup> ATPas	se and			
	. ,	Ca <sup>++</sup> ATPase.	8			
	(b)	What are different types of phospholipids?	Give			
	` '	their functions.	8			
	OR					
	(p)	Describe membrane proteins.	8			
	(q)	Describe various hypothesis regarding unit mem	brane.			
		<del></del>	8			