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SARDAR PATEL UNIVERSITY

MSc.(Home Science) First Semester Examination
Friday, 30th November, 2012
Time: 10.30 am to 1.30 pm
Subject: TEXTILE CHEMISTRY [PH01CTO

				Marks:7	
Note	e: F	igures to the right indicate	marks of the question.		
Q-1		Write the most appropriate answer from the following multiple choice questions.			
	1	Basic unit of protein fiber	is		
		(a) Glucose	(b) Adipic acid		
		(c) Amino acid	(d) Galactose		
	2	2 Degree of polymerization of Viscose Rayon is about			
		(a) 18000 Cellobiose units			
		(c) 175 Cellobiose units	(d) 250 Cellobiose units		
	3	In Detergent active group i	S		
		(a) R-SO ₃ Na	(b) Na ₂ CO ₃		
		(c) R-COONa	(d) NaOH		
	4	Jute is a			
		(a) Seed hair fibre	(b) Protein fibre		
		(c) Bast fibre	(d) animal fibre		
	5	Polyester fibre is made up of			
		(a) Caprolactom	(b) Ethylene glycol and Terphthalic acid		
		(c) Hexamethylene	(d) Adipic acid and Hexamethylene		
		diamine	diamine		
	6	Temporary hardness is due to of Ca and Mg			
		(a) Sulphates	(b) Chlorides		
		(c) Bicarbonates	(d) Nitrates		
	7	Bond present in Silk is			
		(a) Glucosidic	(b) Ester		
		(c) Peptide	(d) Phosphate		
	8	Which of the following is n	ot a natural fiber		
		(a) PAN	(b) Flex		
		(c) Wool	(d) Silk		
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Q-2	Explain with example any Seven of the following.	14		
1.	Degree of Polymerization			
2.	Types of polymer			
3.	Composition of cotton fiber			
4.	Modacrylic fiber			
5.	Peptide bond			
6.	Hydrogen bond			
7.	Laundering and dry-cleaning			
8.	Bio-soft and Bio-hard detergent			
9.	Hardness of water			
Q-3 (a)	What is textile fiber? Explain with examples classification of textile fiber	06		
Q-3 (b)	Explain in detail Orientation in the textile fibers			
Q-3 (b)	OR Explain in detail "sequestering agents" use to remove permanent hardness of water	06		
Q-4 (a)	What is micro-fibre? Explain composition and properties and uses of micro fibres.	06		
Q-4 (b)	Explain cleansing action of soap or detergent	06		
Q-4 (b)	What are builders? Explain in detail	06		
Q-5 (a)	Explain in detail manufacturing process (Flow chart) of cotton	06		
Q-5 (b)	Write physical and chemical properties of Viscose rayon fiber			
Q-5 (b)	Explain with examples laundry bleaches, blues and brighteners	06		
Q-6 (a)	Explain in detail manufacturing process (Flow chart) of polyester fiber	06		
Q-6 (b)	Write structure and properties of Nylon fiber			
O-6 (b)	OR Explain in detail manufacturing process (Flow chart) of Viscose rayon	06		