Enrolment No.

Subject Code: 2132904

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Date: 30-12-2014

Ti	-	Name: Textile Processing - I 2.30 pm - 05.00 pm Total Marks: 70	
		Attempt all questions.	
Q.1	(a)	Discuss the importance of processing in textile department. Which are the different types of impurities present in Grey Fabric? Classify them. Give the process route of processing for: i) Premium quality white formal shirt ii) Ladies Dress Material	07
	(b)	What is Singeing? Discuss the need of singeing. Describe in detail the process of Gas Singeing.	07
Q.2	(a)	Explain following terms with respect to dyeing department. Establish relationship among them with an example. i) M.L.R ii) Shade Percentage iii) Concentration of a Dye Both iv) Explanation of dye both	07
	(b)	iii) Concentration of a Dye Bath iv) Exhaustion of dye bath Explain why desizing is necessary. Classify the different methods of desizing process. Describe the method of desizing which is most commonly used in the industry. OR	07
	(b)	Discuss the need of scouring. Describe the process of Scouring of cotton fabrics using pressure kier method.	07
Q.3	(a)	Write short notes on:	07
	(b)	i) Shearing Process ii) Objectives of Grey Folding Department Discuss Sodium Hypochlorite bleaching in relation to self decomposition, storage conditions and process parameters. OR	07
Q.3	(a)	Justify the significance of J-box in scouring of cellulosic fibres and their blends with the help of proper sketch and process sequence and parameters.	07
	(b)	Discuss Hydrogen Peroxide bleaching in relation to its recipe and process conditions.	07
pos	Discuss, with neat sketch and principle, Jigger Dyeing Machine with its	07	
	(b)	positive and negative aspects. Describe Stepwise dyeing of Reactive dyes.	07
Q.4	(a)	OR What is HTHP method for polyester dyeing? Describe the process of dyeing	07
	(b)	polyester fabrics in a Jet Dyeing Machine. Describe Step wise dyeing of Vat dyes.	07
Q.5	(a)	Define Dyeing, Dyes and Pigments. Classify the Coloring matter. Write the	07
	(b)	objectives of dyeing department. Explain important factors and precautions in package dyeing and describe any one package dyeing machine.	07
Q.5	(a)	OR Write shorts notes:	07
-		i) Importance of wetting and surface tension in dyeing ii) Exhausting Agents	07
	(b)	Describe stepwise dyeing of P/C blend fabric.	07