Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII EXAMINATION – SUMMER 2016

Subject Code: 182804 **Date: 16/05/2016**

Subject Name: Quality Control in Wet Processing

Time: 10:30 AM to 01:00 PM **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Answer the following OBJECTIVE questions:	**07**
	i.	Water repellent fabrics are permeable to air. **True/False.**	
	ii.	Name the salts to prepare artificial sea water.	
	iii.	Reactive dyed fabric is evaluated for washing fastness by ISO 5 method. True/False.	
	iv.	Name the suitable water resistance test method to predict rain penetration resistance.	
	v.	Define 'colour change'.	
	vi.	Alkaline perspiration shows more colour change than acidic. **True/False.**	
	vii.	Name any two artificial light source used in fad-o-meter.	
	(b)	Describe in detail the control checks in dyeing in Jigger. Also explain evaluation methods for vat dye bath.	**07**
Q.2	**(a)**	Discuss various process control measures during drying.	**07**
	(b)	Enlist and describe various requirements of quality control.	**07**
		OR	
	(b)	Give the detailed test method to evaluate whiteness of textiles.	**07**
Q.3	**(a)**	Enumerate various problems associated with desizing process showing their causes and remedies.	**07**
	(b)	Describe various quality control approaches in souring.	**07**
		OR	
Q.3	**(a)**	Explain various defects and their causes & remedies in polyamide dyeing.	**07**
	(b)	Discuss different quality control measures in printing.	**07**
Q.4	**(a)**	Give a critical review on importance, advantages and functions of process control.	**07**
	(b)	Enlist different types of thermometers. Describe with neat diagram the working of vapour pressure thermometer.	**07**
		OR	
Q.4	**(a)**	Give a critical review on process control measures in printing.	**10**
	(b)	Discuss the importance and advantages of automation.	**04**
Q.5	**(a)**	Give the test methods for the following: i. Washing fastness by AATCC method ii. Light fastness by Method-II	**08**
	(b)	Describe the spray test method to evaluate water resistance of fabrics.	**06**
		OR	
Q.5	**(a)**	Discuss the following quality control parameters in context to scouring: i. Scouring loss ii. Residual fat and wax content	**08**
	(b)	Explain the must test method for azoic colour dyed fabric with technological importance.	**06**

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