Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII • EXAMINATION – SUMMER • 2015

Subject code: 182804 **Date: 05/05/2015**

Subject Name: Quality Control in Wet Processing

Time: 10.30AM-01.00PM **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. State the principle formula behind construction of Lustre meter.

ii. What is meant by whiteness retention?

iii. What is Crockmeter?

iv. Construction of fabric influences its water resistance. True/False.

v. Vertical test is used for _____.

vi. State the treatment conditions to assess colour fastness of reactive dye present on cotton fabric to washing.

vii. Most of the dyes used for preparation of Blue wool standards belong to the class of _____ dyes.

(b) Describe only the procedure to assess colour fastness to light. **07**

Q.2 **(a)** Answer the following OBJECTIVE questions: **07**

i. What is twaddle meter used for?

ii. Jet pressure in CDR depends on quality of fabric. True/False.

iii. What are steam traps?

iv. _____ winding for beam & _____ winding for cheese is required for easy dyeing.

v. State any two process control measures in sanforising.

vi. Write the defect & its impact if seam detector is missing in shearing & Cropping machine.

vii. The initiative steps involved in singeing are _____ & _____.

(b) Describe the evaluation method to determine H_2O_2 concentration by potassium permanganate titration. **07**

OR

(b) Give the evaluation technique for rubbing fastness of textiles. **07**

Q.3	**(a)**	Enlist various tests adopted for assessing water resistance of textiles. Explain in detail about Impact penetration test with neat figure.	**07**
	(b)	Depict the detailed test method to evaluate colour fastness to perspiration with significance and principle involved.	**07**

OR

Q.3	**(a)**	Describe about the detailed evaluation method for colour fastness to burnt gas fumes.	**07**
	(b)	Write in detail about evaluation of whiteness of textiles as a quality control measure.	**07**
Q.4		Depict various process control measures in scouring to be done in various machineries with their preventive measures.	**14**

OR

Q.4	**(a)**	Define and Signify "Souring". Enlist various process control measures in it with necessary actions.	**07**
Q.4	**(b)**	Write a note on various damages in textile processing.	**07**
Q.5		Elaborately describe various quality control measures in mercerization.	**14**

OR

Q.5	**(a)**	Enumerate various problems associated with desizing process showing their causes and remedies.	**07**
	(b)	State causes and remedies of defects produced in Jet dyeing machine.	**07**

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