Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VIII • EXAMINATION – SUMMER 2014

Subject Code: 182804 **Date: 27-05-2014**

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.** What is meant by deconvolution?
- **ii.** Write the object to incorporate steel balls/plates to assess any fastness property.
- **iii.** Expand ASTM.
- **iv.** What does ISO – 9000 – 3 exclusively implemented for?
- **v.** What is Iodine drop test used for?
- **vi.** The main component of human perspiration is _____.
- **vii.** What does ash content signify?

(b) Discuss about Hydrostatic pressure test in detail with clean figure. **07**

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

- **i.** Problem of barriness is mostly associated with _____ fibres.
- **ii.** What is pick glass used for?
- **iii.** _____ method is used to check caustic concentration for scouring.
- **iv.** What is the main cause of tailing effect?
- **v.** Inadequate temperature of scouring affects the absorbency of scoured fabric. True/False.
- **vi.** State the causes to get poor luster in mercerization.
- **vii.** Well scoured fabric gives shearing efficiency _____%.

(b) Mention the qualitative determination of different sizes on the fabric surface. **07**

OR

(b) Give the principle and detailed assessment method for ash content measurement of textiles with its significance. **07**

Q.3 **(a)** Write the test method to assess colour fastness of textiles to hydrogen peroxide bleaching with involved principle and significance. **07**

(b) Enumerate detailed test method to evaluate fastness to Hot pressing. **07**

OR

Q.3 **(a)** Define “quality control”. Also mention its functions, requirements and advantages. **07**

(b) Enumerate various quality control measures in Souring. **07**

Q.4 Elucidate different defects in printing with their causes and remedies. **14**

OR

Q.4 **(a)** Enlist numerous process control measures in shearing & cropping. Also give detailed test method to find cropping efficiency. **07**

Q.4	**(b)**	Write different process control measures in chemicking and hydrogen peroxide bleaching. Also state the test method to estimate concentration of H_2O_2 in H_2O_2 bath.	**07**
Q.5		Depict the complete evaluation technique for tensile loss due to chlorine retention in detail.	**14**

OR

Q.5	**(a)**	Write various process control measures in Semi-continuous and continuous dyeing machines.	**07**
	(b)	Enlist different grading of finished fabric. Discuss about any four in depth.	**07**

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