

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 Scouring. **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**
