

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII EXAMINATION – WINTER 2015****Subject Code:182804****Date:12/12/2015****Subject Name: Quality Control in Wet Processing****Time: 2:30pm to 5:00pm****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. Copper number test gives idea of reducing groups present in degraded cotton fibres. True/False.
 - ii. The main ingredient used to evaluate perspiration test is _____.
 - iii. Name the test method used for fabrics to get water resistance against rain.
 - iv. Deconvolution count is the test method to assure quality control measurement in _____ preparatory process.
 - v. Expand ASTM.
 - vi. Define colour fastness.
 - vii. The most widely used solvent to evaluate colour fastness to dry cleaning solvents is _____.
- (b) Give Objects of Process Control. **07**
- Q.2** (a) Explain Process Control measures in Shearing Cropping and how the M/c efficiency is calculated. **07**
- (b) Give Process Control measures in Blg. & Mercerizing (In Chart form only). **07**
- OR**
- (b) What should a quality control program require? Enlist various gains of quality control. **07**
- Q.3** (a) State various quality control measures in mercerisation process. Discuss about any two in detail. **10**
- (b) Give the purpose, principle, method and evaluation for Ash content measurement. **04**
- OR**
- Q.3** (a) Depict on the test method used to evaluate degradation of cotton textiles with principle and significance associated with neat sketch. **10**
- (b) Enumerate various functions of quality control. **04**
- Q.4** (a) Introduce Blue wool standards with associated techno-chemical aspects. Also elaborate the Test Method II to evaluate light fastness of fabrics. **10**
- (b) Elaborate the test method to evaluate colour fastness to sublimation in brief. **04**
- OR**
- Q.4** (a) Give Process Control measures in Jet Dyeing machine. **07**
- (b) Write note on “Damages in Textile Processing”. **07**
- Q.5** (a) Finished fabric Grading. **07**
- (b) Defects, Causes & Remedies During Printing **07**
- OR**
- Q.5** State Importance and Advantages of Automation. Describe various Temperature Measuring Instruments. **14**
