



**B.TECH DEGREE EXAMINATIONS: MAY 2017**

(Regulation 2014)

Sixth Semester

**TEXTILE TECHNOLOGY**

U14TXT601: Textile Quality Evaluation

**COURSE OUTCOMES**

**CO1:** Describe the concepts of quality and statistical application in textiles

**CO2:** Explain the measurement of fibre properties

**CO3:** Explain the measurement of yarn properties

**CO4:** Generalize the advanced testing instruments

**CO5:** Summarize the working Principle of fabric testing instruments

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Matching type item with multiple choice code

CO3 [K<sub>1</sub>]

List I	List II
A. Fabric Fold	i. $\text{g/m}^2$
B. Aerial density	ii. $\frac{1}{28\sqrt{(\text{cotton count})}}$
C. Yarn diameter	iii. Creases
D. Fabric hangs	iv. Drape

- |    | A   | B  | C   | D  |
|----|-----|----|-----|----|
| a) | ii  | i  | iii | iv |
| b) | iii | iv | ii  | i  |
| c) | ii  | iv | iii | i  |
| d) | iii | i  | ii  | iv |

2. The complete bulk of the material available for testing is named as \_\_\_\_\_.

CO1 [K<sub>1</sub>]

- |               |           |
|---------------|-----------|
| a) Population | b) Sample |
| c) Selection  | d) Lot    |





24. i). Analyze the effect of twist level on strength of the continuous yarn performance. (4) CO3 [K<sub>4</sub>]  
ii). List the type of testing instruments available for measuring the direction of twist in the yarn. Describe the untwist-twist method with suitable sketches. (10) CO3 [K<sub>4</sub>]
25. i). What are the factors which affect the tensile properties of textiles material while testing? (2) CO4 [K<sub>4</sub>]  
ii). How the strength of the skein is measured? Illustrate the principles and testing procedure for a lea strength tester. (10) CO3 [K<sub>4</sub>]
26. i). Outline the causes of yarn irregularity. (2) CO5 [K<sub>2</sub>]  
ii). Narrate the yarn faults arrangement in uster classimat. Appraise the new features and advancement available in latest uster evenness tester. (10) CO5 [K<sub>5</sub>]
27. Categorize the existing strength related test for different type fabrics. Explain the sample preparation and principle operation of tearing strength tester. CO4 [K<sub>4</sub>]

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