

- (f) Explain the method of test to measure yarn crimp removed from fabric.
- (g) Define KESF and FAST system of fabric.
- (h) Define porosity, thermal resistance of a fabric.
- (i) Discuss the Test Procedure to measure Fabric Weight.
- (j) Express mathematically Drapé Coefficient.

1½×10=15

Roll No.

Total Pages : 04

J-21-0113

B. Tech. EXAMINATION, 2021

Semester VI (CBCS)

TEXTILE TESTING-II

TE-601

Time : 2 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.

Note : Attempt *Four* questions in all, selecting *one* question from any of the Sections A, B, C and D.
Q. No. **9** is compulsory.

Section A

1. What do you understand by tear strength ? Describe the factors affecting the tear strength of a woven fabric. Describe the test method to determine the tear strength. **15**

2. (a) What is the basic difference between CRL and CRT principles ? 7½
(b) Describe *four* factors responsible for pilling of fabric with justification. 7½

Section B

3. (a) Define repeatability and reproducibility. 7½
(b) Differentiate between the quality control and quality assurance. 7½
4. Describe the different test methods of measuring tensile strength of textile fabric with suitable diagram. 15

Section C

5. What is water repellency of fabric ? Describe the method of measuring the water repellency of fabric using suitable diagram. 15
6. (a) What do you mean by seam pucker ? Explain the classification of seam pucker. 7½
(b) Explain the working of hydrostatic pressure head tester with sketch. 7½

Section D

7. Discuss briefly the basic concept of FAST system for measuring some important low stress mechanical properties. 15
8. Define the following terms : 15
(a) Air permeability
(b) Water proof fabric
(c) Flame resistance
(d) Drape coefficient.

(Compulsory Question)

9. Attempt all questions :
(a) What is elastic and plastic deformation of textile material ?
(b) What do you mean by colour fastness to washing ?
(c) Define the test method for shrinkage of fabric.
(d) Explain the method of test to measure yarn crimp removed from fabric.
(e) A fabric roll of 20 m, weighs 5.4 kg. Given the width of fabric as 1.5 m, find the GSM.