

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 160611

Roll No.

B.TECH.

Theory Examination (Semester-VI) 2015-16

TEXTILE TESTING-II

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempt all Questions. All questions carry equal marks. Write answer of each question in short. (2×10 = 20)

- (a) Define yield point and various methods for finding it.
- (b) Enlist factors affecting yarn strength.
- (c) Why stiffness of a fabric is tested?
- (d) What are merits of Grab test over strip test method?
- (e) Classify physical properties of fabrics.
- (f) Define cover factor of a fabric.

- (g) Why do we test water repellency of fabric?
- (h) Define abrasion resistance of fabric.
- (i) Discuss causes of unevenness in a yarn.
- (j) Name the Classimat faults in yarn.

Section-B

2. Attempt any five questions from this section.

(10×5 = 50)

- (a) Discuss Elastic recovery and time dependent effects on it while loading the specimen upto yield point.
- (b) Discuss a method for determination of tenacity of a fabric with its principle and working.
- (c) Describe an instrument for tensile testing based on inclined plane principle.
- (d) Discuss hydraulic bursting strength tester. Which fabrics are tested by this method?
- (e) Elaborate a method for assessment of air permeability of fabric.

- (f) Discuss thermal insulation property of a fabric.
- (g) Describe Fielden Walker evenness tester.
- (h) How the colour fastness of a fabric is measured.

Section-C

Attempt any two questions in this section. (2×15 = 30)

- 3. Describe Uster evenness tester and mention different yarn faults measured by this instrument.
- 4. Discuss the factors which affect tensile testing of textile materials.
- 5. Define fabric hand. Discuss KAWABATA evaluation system for hand along with various hand equation for various fabrics.