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5th Sem / Textile Design

Subject : Testing & Quality Control - II

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 CRT stands for:

a) Constant Rate of Traverse

b) Constant Rotation Test

c) Constant Rate of Testing

d) Cross Rate Testing

Q.2 Which principle is used in the Single Yarn Strength Tester?

a) CRE b) CRT

c) CRL d) None of the above

Q.3 CSP stands for:

a) Constant Strength Product

b) Count Strength Product

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Discuss the working principle of fabric stiffness tester with the help of well-illustrated diagram.

Q.24 Discuss the measurement of fabric thickness. Also explain how GSM (Grams per square Meter) is determined and its significance.

Q.25 What are common fabric defects? How can they be identified and what are the appropriate remedial measures for each?

c) Cotton Strength Potential

d) Crimp Strength Parameter

Q.4 Fabric weight is usually measured in:

a) N/m b) g/m^2

c) Ib/ft^2 d) kg/cm^2

Q.5 The Elmendorf tester is used to measure:

a) Tearing strength b) Crease resistance

c) Stiffness d) None of the above

Q.6 Martindale Abrasion Tester is used to measure :

a) Tensile strength b) Abrasion resistance

c) Crease recovery d) Fabric weight

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 A_____ tester is used to evaluate fabric abrasion.

Q.8 GSM of a fabric increases with yarn thickness. (T/F)

Q.9 _____ recovery indicates the ability of fabric to resist wrinkling.

Q.10 Martindale tester test color fastness.(T/F)

Q.11 Fabric stiffness is measured using a _____ tester.

Q.12 Define crimp.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Define CRT and CRE principles with diagrams.

Q.14 What is bursting strength? Name the equipment used to measure it.

Q.15 Explain the working principle of the Elmendorf tearing tester.

Q.16 Write a short note on the cut strip method.

Q.17 Define the common tensile strength test methods for fabric.

Q.18 How is fabric GSM measured and why is it important?

Q.19 Define crimp. How is it measured in warp and weft yarns?

Q.20 Describe the working principle of a single yarn strength tester.

Q.21 What is fabric thickness and how is it measured?

Q.22 What is CSP? How is it calculated?