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**4th Sem.**
**Branch : Textile Design**
**Sub. Testing & Quality Control-I**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

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

Q.1 Caustic soda method is used to measure _____.

a) Fineness b) Maturity

c) RH d) None

Q.2 Sheffield Micronaire is an equipment used to measure

a) Fiber fineness b) Fiber length

c) Fiber maturity d) None

Q.3 The following equipment works on the basis of Air flow principle

a) Sheffield Micronaire b0 Conditioning oven

c) Twist tester d) None

Q.4 Standard Moisture regain of silk fiber is

a) 16% b) 8.5%

c) 11% d) 0.4%

Q.5 The amount of vapour present in the atmosphere is known as

a) Humidity b) Absolute humidity

c) Relative humidity d) None

Q.6 Weight in grams of 1000 meter length of yarn is known as

a) Tex b) English count

c) Metric count d) None

## SECTION-B

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

Q.7 Tell the use of Bessley balance.

Q.8 Write down the formula for moisture content

.Q.9 Define TPI.

Q.10 Convert 25$^s$ English count into Denier.

Q.11 Define S and Z twist.

Q.12 Define random sample.

## SECTION-C

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

Q.13 What do you mean by quality control? What is its importance?



Q.14 Define short fiber percentage and effective length of fiber.

Q.15 Explain the influence of humidity on fiber properties.

Q.16 If Tex of a given yarn is 40, calculate its value in Denier and English count.

Q.17 Discuss the method of measuring maturity of cotton fiber.

Q.18 Describe the working principle of the equipment to measure fiber fineness..

Q.19 Describe the importance of fiber length in brief.

Q.20 Describe the working principle of any twist tester with diagram.

Q.21 Give the reasons for textile testing.

Q.22 Define absolute humidity and relative humidity in brief.

## SECTION-D

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

Q.23 Describe the working principle of trash analyser with suitable diagram. Also write down the formula to calculate the cleaning efficiency of a particular machine.

Q.24 Explain the working principle of Sheffield micronaire with the help of suitable diagram.

Q.25 Explain yarn numbering system in brief giving examples of each. Explain merits and demerits of each type of yarn numbering system.