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**B. TECH**  
**(SEM-V) THEORY EXAMINATION 2020-21**  
**TEXTILE TESTING-I**

**Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.**

Qno.	Question	Marks
a.	What do you mean by CIW?	2
b.	What is relative humidity?	2
c.	Describe the classification of twist.	2
d.	What is random sampling?	2
e.	Define salient features of AFIS.	2
f.	What do you understand by population and sample?	2
g.	Define salient features of HVI.	2
h.	What do mean by Maturity index? Write down the formula of maturity %.	2
i.	Differentiate between absolute and relative humidity.	2
j.	What is uniformity index (UI %)? Define grading of cotton.	2

**SECTION B****2. Attempt any three of the following:**

Qno.	Question	Marks
a.	What is Nep count and napping potential? Describe in detail.	10
b.	What are the criteria of selecting a sampling procedure?	10
c.	Explain the principal of air flow method for measuring the fineness of fiber.	10
d.	Discuss any one suitable method of determination of moisture regain and moisture content	10
e.	Define the principal of Stelometer with suitable diagram.	10

**SECTION C****3. Attempt any one part of the following:**

Qno.	Question	Marks
a.	Define maturity ratio. Discuss any test for maturity measurement.	10
b.	Calculate the M.R and moisture content of cotton /viscose blend which is having 60% cotton and 40% viscose in proportion.	10

**4. Attempt any one part of the following:**

Qno.	Question	Marks
a.	What is importance of twist in yarn? Explain S & Z twist.	10
b.	What is FQI? What do you mean by linear density of textile fiber?	10



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**5. Attempt any one part of the following:**

Qno.	Question	Marks
a.	Calculate moisture content of cotton if moisture regain of cotton is 8.5%.	10
b.	What do you mean by comb sorter method? Define any two method to determine the fiber length in detail with suitable diagram.	10

**6. Attempt any one part of the following:**

Qno.	Question	Marks
a.	Differentiate between sample and population. Define all three sample techniques in detail with suitable diagram.	10
b.	Define moisture content and moisture regain. Derive the relationship between Moisture content and moisture regain.	10

**7. Attempt any one part of the following:**

Qno.	Question	Marks
a.	Describe any four of the following terms: i. Tenacity ii. Work of rupture iii. Yield point iv. Count	10
b.	What is effect of moisture on physical, mechanical & electrical properties of textile material?	10