

Q.22 If Denier of a given yarn is 150 calculate its value in Tex and English count.

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SECTION-D

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

Q.23 Explain the method to measure English count of a given yarn with the help of wrap reel. Write down the formula to convert English count into Tex and denier.

Q.24 Define sampling. Why do we need sampling? Describe different types of sampling.

Q.25 Explain the method to measure moisture regain with the help of conditioning oven. Also define relative humidity in brief.

(40)

(4)

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**4th Semester/ Textile Design
Subject : Testing & Quality Control-I**

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 Which of the following is not a type of sample

- a) Random sample b) Biased sample
- c) Batch sample d) None

Q.2 _____ is equipment used to measure Fiber length

- a) Baer sorter b) Micronaire
- c) Beesley balance d) None

Q.3 The spiral turns on the surface of yarn is known as

- a) Micronaire b) Twist
- c) Tex d) None

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- Q.4 _____ is use to measure RH.
- Wet and dry bulb hygrometer
 - Beesley balance
 - Micronaire
 - None
- Q.5 Standard Moisture regain of Polyester fiber is
- 11%
 - 8.5%
 - 13%
 - 0.4%
- Q.6 The following is not a indirect yarn numbering system
- Tex
 - English count
 - Metric count
 - None

SECTION-B

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

- Q.7 Define quality.
- Q.8 Define sampling
- Q.9 Convert 60 Ne into Tex

- Q.10 Tell any one use of shirley trash analyser..
- Q.11 Define moisture regain
- Q.12 Tell the use of conditioning oven.

SECTION-C

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

- Q.13 Describe the working principle of trash analyser.
- Q.14 How fiber fineness is important? Explain in brief.
- Q.15 How fiber length is important? Explain in brief.
- Q.16 How humidity effects fiber properties?
- Q.17 If a 105gms of wet cotton yarn when its oven dry weight is found to be 100 gms. Calculate the moisture regain and moisture content.
- Q.18 What is the aim and scope of quality control.
- Q.19 Write down the formula showing the relation between English count & TPI.
- Q.20 Define fiber maturity. Write the importance of fiber maturity.
- Q.21 Find the weight of 240 yds of 40^s cotton yarn.