Q.29 Write in short the procedure of measuring English count with the help of warp reel.

Q.30 Discuss the use of Twist Multiplier in deciding the property of yarn? Explain in brief

Q.31 Why conditioning of sample is done before testing? Also write conditions for standard testing atmosphere

Q.32 Find the resultant count of three ply yarn made of 20^s, 25^s and 30^s

Q.33 Write the importance of length of fiber in cotton spinning system

Q.34 Describe the procedure of measuring yarn count or yarn number.

Q.35 Describe caustic soda method for measuring maturity of cotton.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 How will you measure twist with the help of twist tester. Explain in brief the working of any twist tester with the help of well illustrated diagram?

Q.37 Explain the working of Shirley trash analyzer with the help of well illustrated diagram.

Q.38 What is sampling? Explain the need of sampling. Describe random and baised sample?

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4th Sem / Text. Design
Subject:- Testing and Quality Control - I

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Baer sorter is used for measuring_____
a) fineness of yarn
b) length of fiber
c) moisture regain of fiber
d) None

Q.2 When two or more yarns are twisted together it is known as_____
a) Plied yarn   b) Spiral yarn
c) Single yarn   d) None

Q.3 Caustic soda swelling method is used to measure
a) Cotton fineness   b) Cotton maturity
c) Cotton strength   d) None

Q.4 Dry and wet bulb hygrometer is used to measure
a) RH   b) Moisture content
c) pH   d) Moisture regain

Q.5 _____Sample is true representative of the population
a) Random   b) Biased
c) Quota   d) None

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Q.6 Diameter of yarn is measured by
a) Conditioning oven
b) Moisture meter
c) Projection microscope
d) None

Q.7 Tex is the number of_____ in 1000 meter length of yarn
a) kilogram   b) Ponds
c) Grams   d) None

Q.8 Which one of the following is universal count
a) Metric count   b) Denier
c) English count   d) Tex

Q.9 Sheffield micronaire is use to measure_____ property of fiber
a) Length   b) Strength
c) Fineness   d) None

Q.10 _____ = TPI Ö count
a) Tex   b) Denier
c) Twist multiplier   d) None

SECTION-B

Note: Objective type questions. All questions are compulsory.   (10x1=10)

Q.11 Small proportion of the total population used for testing is known as_____

Q.12 When selection of items is influenced by other factors then chance, the sample is known as_____

Q.13 Write the conditions for standard testing atmosphere.

Q.14 Write the standard regain of cotton

Q.15 Define moisture content

Q.16 The strength of cotton fibers increases with increase in humidity. (True/False)

Q.17 Define humidity.

Q.18 Define S-twist.

Q.19 Define denier

Q.20 The strength of viscose fibers increases with increase in humidity. (True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions.   (12x5=60)

Q.21 Explain the working principle of direct counting twist tester.

Q.22 Explain the effects of twist on yarn properties in brief

Q.23 What do you mean by balance twist.

Q.24 If a sample of cotton of weight 100 gm is reduced to 95 gm upon heating at 105°C for 2 hours, determine its Moisture Content and Moisture Regain.

Q.25 What are the factors responsible for deviation from standard? Explain.

Q.26 Differentiate between relative humidity and absolute humidity.

Q.27 Write the aim and scope of textile testing.

Q.28 A lea of 30 yards of cotton weights 50 grains. Calculate its count in the cotton system.