

- Q.31 Define quality control and write reasons for textile testing.
 - Q.32 Discuss the use of Twist Multiplier in deciding the property of yarn? Explain in brief.
 - Q.33 Find the resultant count of three ply yarns made of 20^s, 30^s and 40^s.
 - Q.34 Explain the reasons in brief to adopt Tex as universal count.
 - Q.35 Define "twist on twist" and "weft on twist".

Section-D

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

- Q.36 Explain the working principle of trash analyser with the help of a neat and clean diagram. How its helps to estimate trash percentage in cotton fiber.

Q.37 Discuss the detailed procedure of testing fiber length parameters of cotton fiber by Baer sorter. Also explain the procedure to analyse Baer sorter diagram to determine different length parameters.

Q.38 Define twist and its function in yarn structure. Explain any method with the help of suitable diagram to determine yarn twist.

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4th Sem. / Textile Design. Subject : Testing & Quality Control-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.6 The spinning limit of fiber depends upon
 a) Fiber length b) Fiber maturity
 c) Fiber fineness d) None
- Q.7 The fibers having length equal to or less than half of effective length is known as
 a) Long fiber b) Short fiber
 c) Both A & B d) None
- Q.8 Following equipment is used to measure cleaning efficiency of a machine
 a) Trash analyser b) Sheffield micronaire
 c) Baer sorter d) None
- Q.9 When two or more yarns are twisted together it is known as _____.
 a) Plied yarn b) Spiral yarn
 c) Single yarn d) None
- Q.10 The spiral turns given to a yarn is known as
 a) Count b) Bobbin
 c) Twist d) None

Section-B

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

- Q.11 Define direct yarn numbering system.
- Q.12 Caustic soda method is used to measure the _____. (Fiber maturity/fiber fineness)
- Q.13 _____ is an example of Indirect count.
- Q.14 Convert 60 Denier into English count.

- Q.15 The strength of Wool fibers increases with increase in humidity. (True/False)
- Q.16 Define biased sample.
- Q.17 Write full form of TPI and TPM.
- Q.18 Tex is used as universal count. (True/False)
- Q.19 Write the formula to calculate Relation humidity.
- Q.20 _____ is used to measure fiber fineness.

Section-C

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

- Q.21 If tex of a given yarn is 25, calculate its value in Denier and English count.
- Q.22 Write a short note on importance of twist in yarn structure.
- Q.23 Describe the method used for measuring fiber maturity of cotton.
- Q.24 Differentiate between random sample and biased sample in brief.
- Q.25 Write the benefits of testing and quality control.
- Q.26 Differentiate between moisture content and moisture regain.
- Q.27 Describe the working principle of Beesley balance.
- Q.28 Define relative humidity and absolute humidity.
- Q.29 How will you measure English count with the help of wrap reel.
- Q.30 A lea of 45 yards of cotton weighs 40 grains. Calculate its count in the cotton system.