

Q.31 Show the relation between English count and TPI of yarn.

Q.32 Show the relationship yarn count and yarn diameter.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Calculate the English Count of a yarn if 300 of yarns weighs 4 grams.

Q.34 Describe working principle and working of ICI Pill Box tester with the help of an illustrated and neat diagram.

Q.35 Describe working of tearing strength tester along with procedure of its calibration.

Q.36 How relative humidity is measured with the help of wet and dry bulb hygrometer?

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3rd Sem. / Textile Processing, Text. Chem.

Subject : Textile Physical Testing

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 Describe the purpose of sampling.

Q.2 Differentiate between specimen and sample.

Q.3 Show standard regain of wool and viscose.

Q.4 Define ply yarn and cord yarn.

Q.5 Define balance twist.

Q.6 Describe zoning technique.

Q.7 Define moisture-content.

Q.8 Define Tex and denier.

Q.9 Write the name of property of yarn which is determined by using wrap reel.

Q.10 Define Wettability.

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SECTION-B

Note:Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 Describe Air Permeability.
- Q.12 Describe drape of fabric.
- Q.13 Why twist is imparted?
- Q.14 Describe Relative Humidity?
- Q.15 Write the conversion formula of convert English count to Tex.
- Q.16 Explain the use of twist-multiplier in brief.
- Q.17 Tell the working principle of fabric thickness tester.
- Q.18 List different methods to do sampling for yarns.
- Q.19 Define quality.
- Q.20 How Pills are formed.
- Q.21 Name the instrument to determine pilling resistance of fabric.
- Q.22 Describe humidity and absolute humidity.

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SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Describe how yarn strength is influenced by amount of twist?
- Q.24 Discuss in brief how fibre and yarn properties are influenced by humidity.
- Q.25 Describe zoning technique for raw cotton in brief.
- Q.26 How random sample is said to be better representative of population. List the different causes of biasness in sample.
- Q.27 Show the standard testing atmosphere conditions in testing lab.
- Q.28 If 115 grams of cotton sample when heated in oven reduced to 105 grams. Calculate the moisture content and moisture regain of cotton.
- Q.29 Describe universal count? Explain its use in brief.
- Q.30 Describe flammability and flame resistance of fabric.

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