Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(Textile) (2011 Onwards) (Sem.-5)

TEXTILE TESTING
Subject Code: BTTE-505
Paper ID: [A2734]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer in brief:

- a) Write down the factors on which sampling method depends on.
- b) Define moisture regain and moisture content of fibre.
- c) What is span length? What is its significance?
- d) Define maturity ratio of cotton fibre.
- e) Define creep with graphical illustration.
- f) Define elastic recovery.
- g) Arrange following textile material as per the diminishing crease resistance: cotton, polyester, wool, silk, and flax.
- h) Define index of irregularity and limit irregularity.
- i) What do you understand by count strength product? What is its desirable value for good quality yarn suitable for weaving?
- j) Define drape coefficient. What is its ideal value for a sheet of paper?



SECTION-B

- 2. Describe zoning sampling technique and core sampling technique for assessing fibre properties.
- 3. Describe moisture measurement method of textile by Shirley moisture meter in brief.
- 4. Draw typical comb sorter pattern of cotton fibre and explain how to estimate effective length and short fibre percentage.
- 5. Draw stress-strain diagram of a textile fibre and hence define initial modulus and yield point.
- 6. What is the significance of measurement of yarn hairiness? Describe a method of measuring yarn hairiness in brief.

SECTION-C

- 7. What do you understand by fibre fineness? Write down the methods of measurement of fibre fineness? Describe any one method in detail. (2+2+6)
- 8. What are the factors affecting tensile properties of textiles? Describe a method of measurement of single fiber strength in brief. (5+5)
- 9. What do you understand by yarn unevenness? What are the methods of its measurement? Describe any one method. (2+3+5)

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