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Total No. of Printed Pages: [01]

Total No. of Questions: [09]

**B.Tech. (Textile Engg.) (Semester- 6th)**

**TEXTILE TESTING – II**

**Subject Code: BTEXS1–604**

**Paper ID: [18112630]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Explain the following:

- a) Serviceability of fabrics
- b) Textile product leveling
- c) Air permeability and air resistance of fabrics
- d) Bending length and flexural rigidity
- e) Tearing strength of fabric
- f) Fabric assistance
- g) Differentiate between shower resistant, rain resistant and storm resistant fabrics.
- h) Write the limiting oxygen index values for various fibers.
- i) Snagging test of fabrics.
- j) Seam puckering and its measurements.

**Section – B**

**(5 marks each)**

- Q2. What do you mean by TIV of fabrics? How can you determine 'Tog value' of a given fabric, explain a suitable method?
- Q3. What are the various tests performed to assess the quality of the garments?
- Q4. Enlist the various fabric faults and its main causes.
- Q5. What do you understand by the term pilling? Why the fabric made from polyester staple yarn is more prone to pilling compare to cotton fabrics?
- Q6. Describe a heart-loop method for measuring bending length of fabric.

**Section – C**

**(10 marks each)**

- Q7. What is Abrasion resistance of fabric? Describe BFT instrument or Martindale instrument with neat diagram, how can you calculate various abrasion resistance parameters of given fabric samples?
- Q8. What do you mean by fabric handle? What are the major properties that contribute to the fabric handle? Describe method of testing of drape coefficient by drape meter?
- Q9. Describe the followings:
  - a) Concept of reproducibility and repeatability in textile testing.
  - b) Seam defects and its causes