Roll No…….. **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