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**B. Sc. FT (Semester – 4<sup>th</sup>)**  
**TESTING & QUALITY CONTROL IN APPAREL**  
**Subject Code: BFTE2428**  
**Paper ID: 130219**

**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. Attempt the following:

- a. Define the importance of testing in the textile industry.
- b. How do standard atmospheric conditions affect test results in textile testing?
- c. Name two tests used to measure yarn strength and briefly describe their principles.
- d. Explain the concept of fabric evenness and its significance in textile testing.
- e. What parameters are measured to determine fabric dimensions?
- f. Define tensile strength and elongation in the context of textile testing.
- g. Briefly explain the tearing strength test and its relevance in textile evaluation.
- h. Describe the snagging test and its purpose in evaluating fabric serviceability.
- i. Define water vapor repellency and its significance for fabric comfort.
- j. What is meant by the bending length of a fabric? How is it measured?

**Section – B**

**(5 marks each)**

- Q2. Discuss the significance of twist testing in yarn evaluation.
- Q3. Explain the bursting strength test and its relevance in textile quality assessment.
- Q4. Describe the Pilling test and its importance in assessing fabric durability.
- Q5. Discuss the principles and methods used to measure thermal insulation in textiles.
- Q6. Explain the concept of seam slippage and its relevance to garment construction. Discuss the testing procedures to measure seam slippage and its implications for garment strength.

**Section – C**

**(10 marks each)**

- Q7. Discuss the importance of fabric handle in the textile industry. Explain the different tests used to evaluate fabric handle with relevant examples.
- Q8. Garment testing is crucial for ensuring quality and durability. Describe various tests conducted on garments and their significance in maintaining garment quality.
- Q9. Elaborate on the FAST (Fabric Assurance by Simple Testing) method and how it is utilized in textile testing. Discuss its advantages and limitations.