

22582

12425

03 Hours / 70 Marks

Seat No. 

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answer with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Assume suitable data, if necessary.  
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.  
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. Attempt any FIVE of the following: 10
- a) List the methods to measure threads per inch of a fabric.
  - b) Define bending length and also write the formula.
  - c) Define wear and serviceability.
  - d) Define thermal insulation value and also write the formula.
  - e) State the importance of fabric tensile testing.
  - f) List any two precautions to be taken while performing on bursting strength tester.
  - g) List down various points to be considered while checking quality of Zipper.

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2. **Attempt any THREE of the following:** 12
- a) Describe the fabric thickness tester with a neat sketch.
  - b) Define crimp. Describe with neat sketch working of crimp tester.
  - c) Describe the procedure to determine drape coefficient of fabric.
  - d) Describe with neat sketch crease recovery tester.
3. **Attempt any THREE of the following:** 12
- a) State the factors responsible for pill formation in fabric.
  - b) Determine the pilling resistance of fabric by pilling tester.
  - c) Compare water repellent fabric with water proof fabric.
  - d) Describe the basic concept of wettability related to fabric.
4. **Attempt any THREE of the following:** 12
- a) Determine the bursting strength of a fabric with neat sketch.
  - b) Compare cut strip method with grab test method of tensile testing.
  - c) Elaborate the concept of fabric assistance. State its effect on tensile strength of fabric.
  - d) Determine seam strength and seam efficiency of a fabric.
  - e) Discuss the application of grey scale in Textile mill.
5. **Attempt any TWO of the following:** 12
- a) Derive the formula for cover factor of fabric.
  - b) Relate the effect of EPI, PPI, weave on drape of the given fabric.
  - c) Elaborate various end points to assess the damage caused to fabric by abrasion testing.
6. **Attempt any TWO of the following:** 12
- a) Determine air permeability of a given fabric and state the factors affecting air permeability of a fabric.
  - b) Describe with neat sketch Elmendorf tear strength tester.
  - c) "Testing of fabric fastness to colour and staining is very important". Justify the statements with proper reason.
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