

17471

21819

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**
- a) Define and explain the term – British count and Denier count.
- b) State various fabric sampling methods with their importance.
- c) Explain in brief how pilling of the fabrics can be minimized.
- d) State the term – Tenacity and work of rupture.
- e) Explain in brief the measurement of tearing strength of the fabric.
- f) Define Serviceability , wear and abrasion properties of the fabric.
- g) Describe the method of determination the bursting strength of the fabric.

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- 2. Attempt any TWO of the following:** **16**
- a) Describe the method to measure the twist by twist and untwisting principle.
 - b) (i) Define fabric thickness and cover factor.
(ii) Explain the method of testing thickness of the fabric.
 - c) Describe the method of measurement of water repellency by spray tester. Write the standard norms for it.
- 3. Attempt any TWO of the following:** **16**
- a) Describe the standard method of determination of yarn count with electronic balance.
 - b) Explain the standard method for measurement of crimp % in warp and weft. Write the importance of this test.
 - c) Define “air permeability” of the fabric explain the method for measurement of air permeability.
- 4. Attempt any TWO of the following:** **16**
- a) State the concept of Yarn Twist? Explain the direction of twist and effect of twist on yarn and fabric properties.
 - b) Explain the term “Crease recovery angle”. Why it is tested? Explain the method for measurement of crease recovery angle.
 - c) Explain the terms water proof and water repellent fabric. Write their various applications with importance.
- 5. Attempt any TWO of the following:** **16**
- a) State the concept of yarn unevenness. Explain the effect of yarn unevenness on yarn and fabric properties.
 - b) State the term “Drapability of the fabric”. Describe the method of measurement of drapability. How it can be improved?
 - c) Describe the method for measurement of pilling by ICI Pill box tester. Write the standard norms for the fabrics.

6 Attempt any TWO of the following:**16**

- a) (i) Describe the method of determination of stiffness of the fabrics.
 - (ii) Explain any method to improve the stiffness of the fabric.
 - b) State the concept of following terms:
 - (i) Load
 - (ii) Mass stress
 - (ii) Elastic Recovery
 - (iv) Elongation.
 - c) State the term tensile strength of the fabric. Describe the method for measurement of fabric tensile strength.
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