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11819

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** :

20

- a) Define – Fabric length and fabric width.
- b) Explain the factors affecting the pilling property of the fabric.
- c) Explain the working principle of High Volume Instrument (HVI).
- d) Explain the importance of Grey scale for colour change and staining.
- e) What is dry cleaning ? Explain the procedure to test it.
- f) Write the concept of swelling shrinkage in dimensional stability.
- g) Write the reasons of seam failure.
- h) What is cover factor ? Describe relation between cloth cover factor, yarn count and diameter of yarn.

2. Attempt **any two** :

16

- a) State the terms-crimp and % crimp. Explain the method to measure crimp percentage in warp and weft of the fabric.
- b) What is air permeability ? Explain the factors affecting air permeability. Write the method of testing air permeability of the fabric.
- c) Draw and explain the procedure for testing Tensile strength of the fabric.

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**3. Attempt any two :****16**

- a) What is crease recovery angle ? Explain the method to determine the crease recovery angle of the fabric. Write its necessity.
- b) Draw principle diagram of AFIS and explain its working. Also give the advantages of AFIS test.
- c) Explain the procedure for testing rubbing fastness and light fastness properties of the fabric.

4. Attempt any two :**16**

- a) Describe the method of measurement of stiffness of the fabric by tester based on cantilever principle.
- b) i) Define the terms-serviceability, wear.
ii) Explain the method for measurement of Abrasion by Martindale Abrasion Tester.
- c) Describe with neat sketch the procedure of measurement of Bursting strength of the fabric.

5. Attempt any two :**16**

- a) What is drapability of the fabric ? Explain the method of determination of drape coefficient by drape meter. Write its importance.
- b) Describe the method of determination of water repellancy by spray tester. Explain the standard norms for various fabrics.
- c) Explain the principle and working of Tenso-Jet and Tenso Rapid yarn testing.

6. Attempt any two :**16**

- a) What is Pilling ? Describe the method for determination of pilling property by ICI pill box tester.
 - b) Explain the water proof and water repellent fabrics. Explain their importance and various applications.
 - c) What is tearing strength of the fabric ? How it is measured ? Describe the procedure with standard norms.
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