

17465

21314

3 Hours / 100 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 answers 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:** **20**
- a) Define Crimp and Crimp percentage in fabric.
 - b) Define bending length and flexural rigidity of fabric.
 - c) Define Wear and Abrasion of fabric.
 - d) Define water proof and shower proof textile material.
 - e) Compare Air Permeability and Air Resistance of fabric.
 - f) Why fabric strength testing is carried out? Write any four reasons.
 - g) What is seam strength and seam slippage?

P.T.O.

- h) Enumerate factors affecting air permeability of fabric.
- i) List down characteristics of AFIS testing.

2. Attempt any TWO of the following: 16

- a) Describe the effects of crimp on fabric properties.
- b) Derive mathematical relation between Yarn Count, Yarn Diameter and derive an expression for cloth cover factor.
- c) Describe a method to determine crimp percentage in fabric.

3. Attempt any TWO of the following: 16

- a) Describe measurement of stiffness of fabric by stiffness tester.
- b) Describe determination of drape coefficient by drape meter.
- c) Describe a method for determination of Crease Recovery Angle of fabric.

4. Attempt any TWO of the following: 16

- a) Describe Martindale Abrasion Tester method for determination of Abrasion Resistance of fabric.
- b) What is pilling of fabric? Describe the factors responsible for pilling of fabric. Describe method of measurement of pilling by ICI Pill Box tester.
- c) Describe spray test method for determination of wettability of fabric.

5. Attempt any TWO of the following: 16

- a) Describe method for determination of tear strength of fabric by Elmendorf Tester.
- b) Describe diaphragm method for determination of bursting strength of fabric.
- c) Describe in brief working of High Volume Instrument (HVI) used for determination of fibre properties.

6. Attempt any TWO of the following: 16

- a) Describe in brief principle of working and features of Tenso-Jet Yarn Tensile Strength Tester.
 - b) Describe a method to determine colour fastness of fabric to crocking (rubbing)
 - c) Describe a method for determination of seam strength.
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