17465

16172

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.

Marks

1. Attempt any ten:

20

- a) Define "Serviceability" and "Wear".
- b) Define "Crimp" and crimp percentage in fabric.
- c) Enlist the factors responsible for pilling of fabric.
- d) Define cover factor and give its formulae.
- e) Define "Drape".
- f) Enlist various methods of measurement of "Threads per unit length".
- g) State effect of crimp on fabric properties.
- h) Enlist the methods for measurement of water repellent fabric.
- i) Define "Air-permeability".
- j) Explain term "Tearing Strength" and "Tensile Strength".
- k) Compare any four points of Tenso-jet and Tenso-rapid yarn testing equipment.
- 1) State the advantages of High Volume Instrument (HVI).
- m) What is "Seam Strength".
- n) Define "Shrinkage".

2. Attempt any two:

16

- a) State mathematical relation between yarn count and yarn diameter and also state the expression for cloth cover factor.
- b) Describe determination of drape coefficient by drape meter.
- c) Describe in brief working of High Volume Instrument (HVI) used for determination of fibre properties.

	Ma	ırks
3.	Attempt any two:	16
	a) Describe fabric sampling method with sketch.	
	b) Explain the Stiffness tester with neat sketch.	
	c) Describe in briefAdvanced Fibre Information System (AFIS).	
4.	Attempt any two:	16
	a) Explain measurement of pilling by ICE pill box tester.	
	b) Give eight point comparison between water proof and water repellent fabrics.	
	c) Describe the methods for measurements of colour fastness to light for textile fabrics.	
5.	Attempt any two:	16
	a) Define the following	
	1) Serviceability	
	2) Wear	
	3) Abrasion.	
	b) Describe with neat sketch method for measuring tearing strength of fabric.	
	c) Describe method of measurement of seam slippage.	
6.	Attempt any two:	16
	a) Describe a method for determination of crease recovery angle of fabric.	
	b) Draw neat sketch of Bursting Strength Testor and describe measurement of the Bursting strength of fabric.	
	c) Explain the principle of Tenso-jet instrument. Explain use of scatter plot.	