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3	Ho	ours /	100) Marks	Seat	No.						
	Instru	uctions –	(1) All Questions are Compulsory.									
			(2)	2) Answer each next main Question on a new page.								
			(3)	Illustrate your necessary.	answers	with no	eat sk	etch	es w	vhere	ever	
			(4)	Figures to the right indicate full marks.								
			(5)	Assume suitable data, if necessary.								
			(6)	Use of Non-pi Calculator is p	ogrammal bermissible	ble Ele e.	ectroni	c P	ocket	t		
			(7)	(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.								
											Marks	
1.		Attempt	any	<u>TEN</u> of the f	ollowing:						20	
	a)	Define metric count and give formulae.										
	b)	List the per unit	vario lengt	various methods used for measuring threads length.								
	c)	Give sample size for stiffness testing with cantilever principle.										
	d)	Define A	Define Air-permeability.									
	e)	What is	impe	rfection?								

- f) State the concept of GSM.
- g) Define Denier and give its formulae.
- h) State types of abrasion.
- i) List factors affecting air-permeability any four.

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Marks

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- j) What is gauge length for single yarn strength testing?
- k) Explain principle of Bursting strength tester.
- 1) List the fabric dimensional properties.
- m) Define Elastic recovery.
- n) Give sample size for Tearing Strength Testing.

2. Attempt any FOUR of the following:

- a) Draw the neat sketch of the yarn twist tester working on untwisting principle.
- b) What is Drape? Write formula for measuring Drape coefficient of fabric.
- c) Draw the schematic figure of Tearing Strength Tester.
- d) Explain cutting and weighing method for finding yarn evenness.
- e) Define Mass stress and Tenacity.
- f) Define serviceability, wear and abrasion.

3. Attempt any <u>TWO</u> of the following:

- a) Define fabric length and width. List down the methods of measuring fabric length and describe any one.
- b) Describe method of measuring crease recovery angle of fabric with schematic figure.
- c) What is the standard method of determination of yarn count with electronic balance if yarn is in package and fabric form?

4. Attempt any TWO of the following:

- a) State types of variations in yarn evenness testing. What is effect of yarn unevenness on yarn and fabric properties?
- b) Compare Direct and Indirect yarn numbering system.
- c) Define Crimp. Describe method of measurement of crimp % in warp and weft yarn.

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5. Attempt any <u>TWO</u> of the following:

- a) How to measure drape of fabric? Explain in detail.
- b) Define Pilling. Describe measurement of pilling by ICI pill box tester.
- c) Define cover factor. Write formulae for warp, weft and cloth cover factor. Calculate cloth cover factor from following details.

Warp Count = 60 Ne, Weft Count = 40 Ne EPI = 80, PPI = 70.

6. Attempt any <u>TWO</u> of the following:

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- a) Describe standard method to determine CSP of yarn with schematic figure.
- b) Explain spray test method with neat sketch and give ratings.
- c) Define CRE, CRL and CRT principles. Give sample size for Unravel strip test, Cut strip test and Grab test.