313351

12425 03 Hours / 70 Marks Seat No.

- Instructions (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any <u>FIVE</u> of the following:

10

- a) Define the course and wales.
- b) State the concept of face loop and back loop.
- c) Draw the loop structure of 1×1 Rib fabric.
- d) Draw the symbolic notation for 2×3 Rib fabric.
- e) State the concept of G.S.M. and express its formula.
- f) State the concept of warp knitting.
- g) Define the non woven.

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515.	<i>33</i> 1	L 2 J	Marks
2.		Attempt any THREE of the following:	12
	a)	Distinguish between single jersey fabric and rib fabric.	
	b)	Draw the schematic diagram of 1 course tuck stitch.	
	c)	State the concept of tightness factor and express its formula.	
	d)	Compare between warp knitting and weft knitting.	
3.		Attempt any THREE of the following:	12
	a)	State the functions of following elements:	
		i) Needle	
		ii) Cams	
		iii) Fabric spreader	
		iv) Cylinder.	
	b)	List the physical property of following fabric:	
		i) S/j fabric	
		ii) Interlock fabric.	
	c)	Define the following detects and list its causes:	
		i) Fabric bow	
		ii) Fabric skew.	
	d)	State the functions of Needle bar and shinker bar.	
	e)	Classify the technical textile.	
4.		Attempt any THREE of the following:	12
	a)	Draw the Needle arrangement and cam arrangement diagram for rib machine.	1
	b)	Draw the loop structure of interlock fabric and enlist the features of interlock fabric.	S
	c)	State the properties of miss stitch and tuck stitch fabric.	
	d)	Calculate the G.S.M. of fabric, if knitted fabric is having C.P.I. = 30, WPI = 25, stitch length = 2.00 mm, count = 40' Ne	
	e)	Draw the lapping diagram for:	
		i) 0-1 / 2-1//.	
		ii) 1-0/3-4//.	

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5.	1	Attempt any <u>TWO</u> of the following:	12
a	.) :	State the concept of:	
	i	i) C.P.I.	
	j	ii) W.P.I.	
	i	iii) Course length	
	i	iv) Stitch length	
	•	v) Loop	
	•	vi) Stitch density.	
b	-	State the concept of Needle order and cam order with suitable diagram.	2
c)]	Define angle of spriality and write its causes and remedies.	
6.	1	Attempt any <u>TWO</u> of the following:	12
a)]	Draw the loop structure of following fabric:	
	j	i) Single jersey	
	i	ii) 2 × 1 Rib	
	j	iii) 1 × 1 Rib.	
b)]	Explain with sketch the working of Needle punching technique	
c) i	i) State the concept of	
		1) Overlap	
		2) Underlap	
		3) Stitch length in warp knitting.	
	j	ii) State the properties of laminated fabrics.	