Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VII EXAMINATION - SUMMER 2016** 

Date:05/05/2016

Subject Code:172906

Tir	ne:02 truction 1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.	-
	3.	Figures to the right indicate full marks.	
Q.1	(a)	With a neat labeled diagram, explain the construction and working of latch needle. What advantage does it have as compared to spring beard needle?	07
	<b>(b)</b>	Define the following terms:  (i) Loop (ii) Open loop (iii) Sinker loop (iv) Stitch length	07
Q.2	(a)	Describe rib structure with neat sketch and hence discuss its important	07
	<b>(b)</b>	properties. Also give symbolic representation.  With a neat sketch, explain how tuck is formed. Also discuss its effect on fabric properties.	07
		OR	
	<b>(b)</b>	With a neat sketch describe how a loop has 8 cross over points in single jersey fabric. Hence explain why single jersey fabrics tend to curl.	07
Q.3	(a)	Describe function of following parts in weft knitting machine with neat sketch: (i) Cylinder (ii) Cams (iii) Feeder	09
	<b>(b)</b>	A circular weft knitting machine with 24 feeders and 800 needles is running at 30 rpm. If stitch length is 0.12 inch, course/inch in fabric is 20,count of yarn is 30's Ne and efficiency is 90%, calculate production in meters/hour and kgs/hour.	05
		OR	
Q.3	(a)	Explain complete knitting cycle on Raschel warp knitting machine with neat sketch.	10
	<b>(b)</b>	State the major differences between Raschel and Tricot warp knitting machine.	04
Q.4	(a)	What is marker planning? Describe computerized marker planning in detail along with its advantage and disadvantage.	07
	<b>(b)</b>	With the help of neat sketch, explain cutting with band knife.  OR	07
Q.4	(a)	Enlist steps of pattern development in design department. Hence elaborate any two steps .	07
	<b>(b)</b>	Explain the role of IT in garment industry.	07
Q.5	(a)	Explain following with suitable sketch: (i) Superimposed seam (ii) Lock stitch	08
	<b>(b)</b>	Explain differential feed system with neat sketch.  OR	06
Q.5	(a) (b)	What are work aids? Explain any one work aid with neat sketch. Discuss briefly problems of stitch formation.	07 07
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