Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII EXAMINATION – WINTER 2015

Subject Code: 172906 **Date:04/12/2015**

Subject Name: Knitting & Garment Technology

Time: 10:30am to 1:00pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	With a neat sketch, explain the construction and working of latch needle. Also state its advantage and disadvantage.	**07**
	(b)	What is Tuck ? How it is formed? Explain with neat sketch. Also state its effect on fabric properties.	**07**
Q.2	**(a)**	Draw symbolic and graphical representation of Rib structure. Hence state the important characteristics of rib structure.	**07**
	(b)	Draw technical face side of single jersey fabric . Describe important properties of Single jersey fabrics.	**07**
		OR	
	(b)	List out basic knitting elements of circular knitting machine and explain their functions briefly.	**07**
Q.3	**(a)**	Describe the complete knitting cycle on Raschel warp knitting machine with neat sketches.	**10**
	(b)	Explain the terms 'Swing' & 'Shog' with reference to warp knitting .	**04**
		OR	
Q.3	**(a)**	State the difference between Raschel and Tricot warp knitting machines.	**08**
	(b)	Discuss briefly various methods of colour stich formation with reference to weft knitting machine.	**06**
Q.4	**(a)**	(i)Explain different methods used to duplicate manual marker planning.	**04**
		(ii)Describe important characteristics of Lockstitch briefly.	**03**
	(b)	What is puckering ? State various causes of puckering and explain any two causes of puckering in detail.	**07**
		OR	
Q.4	**(a)**	Explain the following with respect to spreading: (i)Shade sorting of cloth pieces (ii)Elimination of fabric faults	**07**
	(b)	Describe Lapped seam and Decorative seam with neat sketch.	**07**
Q.5	**(a)**	Only list out the stages of product development in design department. Hence describe any two stages briefly .	**07**
	(b)	Explain the differential feed mechanism with neat sketch.	**07**
		OR	
Q.5	**(a)**	With a neat sketch, explain cutting with straight knife.	**08**
	(b)	Explain the importance of 'IT' in modern garment industry .	**06**

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