GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

Subject Code:2162909 Date:21/			
Subject Name: Knitting Technology Time: 10:30 AM to 01:00 PM Instructions: Total Ma			
	2	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)	Compare spring beard needle and latch needle briefly. Compare Warp knits with Wovens.	07 07
Q.2	(a)	Explain anatomy of loop stitch and cross over points for simple weft knit structure with neat sketch.	07
	(b)	Define the terms: (i) Loop (ii) Back stitch (iii) Stitch length (iv) Tuck loop OR	07
	(b)	With a lapping diagram explain the formation of Atlas Lap.	07
Q.3	(a)	Describe construction of cylinder and cams used on circular knitting machine with a neat sketch.	09
	(b)	Describe briefly the requirements of yarn quality for weft knitting. OR	05
Q.3	(a)	With a neat sketch, describe how float is formed. Hence discuss its effect on fabric properties.	09
	(b)	A circular knitting machine with 30 feeder is running at 30 RPM. Total needles in machine are 900 and stitch length is 0.15 inch. If the efficiency is 90%, count of yarn is 24sNe and fabric is knitted with 24 courses /inch, calculate production in terms of Kgs/shift.	05
Q.4	(a)	Draw Rib structure along with its graphical and diagrammatic representation. Hence describe its important properties.	10
	(b)	Discuss briefly defects and remedial measures for weft knitting. OR	04
Q.4	(a)	Draw Interlock structure along with its graphical and diagrammatic representation. Hence describe its important properties.	10
	(b)	Discuss briefly features of socks knitting machine.	04
Q.5	(a) (b)	With neat sketches explain Knitting cycle on Tricot machine. Give comparison between Tricot & Raschel Knitting machine. OR	07 07
Q.5	(a) (b)	With neat sketches explain Knitting cycle on Raschel machine. Discuss in detail Manufacturing of Net fabric.	07 07
