

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. **07**
Also state its advantage and disadvantage.
- (b) What is Tuck ? How it is formed? Explain with neat sketch. **07**
Also state its effect on fabric properties.
- Q.2** (a) Draw symbolic and graphical representation of Rib structure. **07**
Hence state the important characteristics of rib structure.
- (b) Draw technical face side of single jersey fabric . **07**
Describe important properties of Single jersey fabrics.
- 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: **07**
(i) Shade sorting of cloth pieces
(ii) Elimination of fabric faults
- (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. **07**
Hence describe any two stages briefly .
- (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**
