

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-VII Examination-Nov/Dec.-2011

Subject code: 172906

Date: 29/11/2011

Subject Name: Knitting and Garment Technology

Time: 10.30 am-01.00 pm

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) Draw 2 colours, 2 needle repeat double jersey and 3 colours, 2 needle repeat single jersey designs. **07**
- (b) Write on various feed mechanism for garment making. With sketch explain needle and compound feed mechanism. **07**
- Q.2** (a) Answer following: **07**
- (i) A garment unit has a roll containing 672 m of 63" width fabric. The cutting is required for 4 sizes in 1:2:2:1 ratio. There will be 12 m of fabric per layer with 10 sizes per layer. The average area of all pattern pieces is 1.54, 1.58, 1.65 and 1.77 sq.m. respectively for 4 sizes. Calculate marker efficiency, no. of layers and amount of waste.
- (ii) A fancy three ply sewing thread is composed of 50sNe, 40sNm and 80 denier polyester core. Find sewing thread ticket number in English and Tex systems.
- (b) Write any four major causes of problem of seam pucker. **07**
- OR**
- (b) With sketch explain circular, post and feed off the arm type beds. **07**
- Q.3** Explain knitting cycle with sketch to produce tricot fabric. **14**
- OR**
- Q.3** With neat sketch, write salient features of following: **14**
- (i) Tuck Stitch (ii) Laid in Stitch
- Q.4** (a) Write comparison between Rib and Plain fabric. **07**
- (b) Explain knitting cycle with sketch to produce plain fabric using bearded needle. **07**
- OR**
- Q.4** (a) Define: (i) Clearing (ii) Landing **04**
- (iii) Stitch length (iv) Tightness Factor
- (b) Explain knitting cycle with sketch to produce plain fabric using latch needle **05**
- (c) Draw 2 x 2 rib fabric. **04**
- Q.5** Write short note on following: **14**
- (i) Fabric defect analysis and point grading system
- (ii) Basic lock stitch machine
- OR**
- Q.5** (a) Explain in detail various methods available for marker planning. Elaborate more on use of computer for the same. **09**
- (b) Write a short note on straight knife. **05**
