Seat No.: _____ Enrolment No._____

# GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER–VII • EXAMINATION – WINTER 2013**

**Subject Code: 172906** **Date: 03-12-2013**

**Subject Name: Knitting and Garment Technology**

**Time: 10:30 TO 01:00** **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)** | What is marker planning? Explain requirement of production planning related to marker. | **07** |
| | **(b)** | What is the need of feed mechanism? Explain drop feed system with neat sketch. State the limitations of drop feed and how these are overcome? | **07** |
| **Q.2** | **(a)** | With a neat sketch, explain the construction and working of Latch needle. | **07** |
| | **(b)** | Compare Warp knitting and Weft Knitting. | **07** |
| | | **OR** | |
| | **(b)** | Discuss Tuck stitch with diagram and State the effect of Tuck stitch on properties of fabric. | **07** |
| **Q.3** | **(a)** | With neat sketch describe complete Knitting cycle of Raschel warp knitting machine | **10** |
| | **(b)** | State the function of following parts of Weft knitting:<br>1. Cam 2. Feeder 3. Sinker. | **04** |
| | | **OR** | |
| **Q.3** | **(a)** | Draw a neat diagram showing Tricot knitting elements. Also state the types of motion of guide bar. | **07** |
| | **(b)** | . How designs in coloured stitches can be produced in weft knitting. | **07** |
| **Q.4** | **(a)** | Explain how Float is formed. Hence state its effect on Fabric properties. | **07** |
| | **(b)** | What is work aid? What is the need of work aid? Enlist different types of work aid, hence explain any one in detail. | **07** |
| | | **OR** | |
| **Q.4** | **(a)** | Do as directed:-<br>i. Explain Pattern making in the design department<br>ii. Give features of Automatic Spreader. | **07** |
| | **(b)** | Which are three main sewing problems? Hence, explain needle heating in detail. | **07** |
| **Q.5** | **(a)** | Do as directed:-<br>i. Define 'seam'. With neat sketches explain, Decorative seams.<br>ii. Explain with neat sketch class 300 stitch along with its advantages and disadvantages. | **10** |
| | **(b)** | Draw only diagram of different needle points. | **04** |
| | | **OR** | |
| **Q.5** | **(a)** | Enlist different cutting methods. Explain Die cutting in detail. | **07** |
| | **(b)** | Explain role of IT in garment manufacturing. | **07** |

**********