

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:2162909

Date:21/05/2016

Subject Name: Knitting Technology

Time: 10:30 AM to 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) Compare spring beard needle and latch needle briefly. **07**
(b) Compare Warp knits with Wovens. **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 : **07**
(i) Loop (ii) Back stitch (iii) Stitch length (iv) Tuck loop
- OR**
- (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. **05**
- OR**
- 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. **04**
- OR**
- 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) With neat sketches explain Knitting cycle on Tricot machine. **07**
(b) Give comparison between Tricot & Raschel Knitting machine. **07**
- OR**
- Q.5** (a) With neat sketches explain Knitting cycle on Raschel machine. **07**
(b) Discuss in detail Manufacturing of Net fabric. **07**
