

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2162909

Date:29/05/2019

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.

	MARKS
Q.1 (a) Explain the following terms with sketch: (i) Closed loop (ii) Needle loop	03
(b) Describe the important characteristics of single jersey fabrics.	04
(c) With a neat sketch explain the formation of tuck stitch in weft knitting. Also discuss the effect of tuck on fabric properties.	07
Q.2 (a) State advantages and disadvantages of spring beard needle.	03
(b) Describe latch needle briefly with neat sketch.	04
(c) Describe Rib structure briefly with neat sketch.	07
OR	
(c) Describe Interlock structure with neat sketch.	07
Q.3 (a) Describe the cam required to produce tuck and float briefly with neat sketch.	03
(b) Compare basic properties of woven and knitted fabrics briefly.	04
(c) With a suitable sketch, describe briefly flat bed knitting.	07
OR	
Q.3 (a) Discuss why single jersey fabrics tend to curl briefly.	03
(b) Discuss various defects in weft knitting briefly along with its remedial measures.	04
(c) Compare warp knitting and weft knitting briefly.	07
Q.4 (a) Explain in brief the types of motion of guide bar.	03
(b) Explain with a structure how chain stitch is formed.	04
(c) Describe the knitting cycle of a Tricot machine with neat sketches.	07
OR	
Q.4 (a) With a neat diagram show knitting elements of Tricot machine.	03
(b) Discuss in brief about important yarn properties for warp knitting.	04
(c) With a lapping diagram explain the formation of Atlas lap.	07
Q.5 (a) Discuss in brief about Locknit structure.	03
(b) Describe the lapping movement with neat sketch for: 3 & 1 lapping.	04
(c) Discuss in detail manufacturing of net fabric.	07
OR	
Q.5 (a) Discuss in brief about full Tricot structure.	03
(b) Describe the lapping movement with neat sketch for: 2 & 1 lapping.	04
(c) Give the comparison between Tricot & Raschel knitting machine.	07
