

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VI (New) EXAMINATION – WINTER 2019****Subject Code: 2162907****Date: 11/12/2019****Subject Name: Weaving Technology-III****Time: 02:30 PM TO 05:00 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) What it means by a term “Bunch”?	03
	(b) State the function of Lingo and Spring board.	04
	(c) How the Ruti let-off motion operates? Explain with a neat diagram.	07
Q.2	(a) What it means by a term “Filamentation”?	03
	(b) Briefly explain straight-through tie-ups.	04
	(c) State the functions of Change shaft, Protector arm, Latch, Bunter, Hammer, Feed Pawl and Magazine of Automatic pirn change mechanism.	07
	OR	
	(c) Write in detail about Bartlett let-off motion.	07
Q.3	(a) Give classification of feelers.	03
	(b) State the function of comber board and harness.	04
	(c) Which devices are to be get operated for uniform weft tension control after automatic pirn change takes place? Explain their working.	07
	OR	
Q.3	(a) What is the principle of automatic negative let-off mechanism?	03
	(b) How the Two-pronge electrical feeler works?	04
	(c) Write in detail about the Crompton & Knowl's type auto warp stop motion.	07
Q.4	(a) What are the salient features of shuttle changing looms?	03
	(b) Write about the short and long interval warp tension variation factors.	04
	(c) What kind of precautions are required for filament warping?	07
	OR	
Q.4	(a) Which are the different types of Swivel looms?	03
	(b) How the Midget feeler works?	04
	(c) Explain the construction & working of Mather & Platt's type auto warp stop motion with a neat sketch.	07
Q.5	(a) What are the structural characteristics of Madras Muslin fabric?	03
	(b) How the Unifil loom winder works?	04
	(c) Explain the construction & working of single lift single cylinder jacquard.	07
	OR	
Q.5	(a) What are the steps of operations for producing lappet fabrics?	03
	(b) How one can produce terry fabrics?	04
	(c) What is casting out in jacquard? Explain with your own example.	07
