

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2172902****Date: 15/11/2018****Subject Name: Modern Weaving 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) Why better yarn is required for shuttleless looms?	03
	(b) Explain the formation of leno selvedge for shuttleless weaving.	04
	(c) Discuss in detail about the types of Projectiles.	07
Q.2	(a) Give comparison between drum and loop type accumulators.	03
	(b) What type of water quality is used for Water-jet weaving?	04
	(c) Explain various equations of drag force with reference to air-jet weaving.	07
	OR	
	(c) Explain picking arrangement of projectile weaving machine .	07
Q.3	(a) Give the features of modern sizing machine.	03
	(b) What are the problems with multiphase weaving system?	04
	(c) Discuss about any three modern warping creels.	07
	OR	
Q.3	(a) Give disadvantages of water jet looms.	03
	(b) How ETU works?	04
	(c) Explain drum type accumulator with it's modern features.	07
Q.4	(a) Briefly explain the techno economics for shuttleless looms installation.	03
	(b) Write a note on triaxial weaving.	04
	(c) Describe in detail about the flexible Rapier weaving machine.	07
	OR	
Q.4	(a) Give some idea about formation of tuck-in selvedge.	03
	(b) What measures would you like to suggest to overcome the most common problem of starting mark for air-jet denim weaving?	04
	(c) Explain the construction and working of cam beat-up motion.	07
Q.5	(a) Give the usefulness of QSC.	03
	(b) Write a note on ELO.	04
	(c) Explain different insertion configurations used on air-jet weaving machine.	07
	OR	
Q.5	(a) Give the features of electronic jacquard.	03
	(b) Draw a loom-timing diagram of any one shuttleless loom.	04
	(c) Explain drive and let-off in context to Rapier loom.	07
