

GUJARAT TECHNOLOGICAL UNIVERSITY
BE –SEMESTER VII (NEW SYLLABUS) EXAMINATION- SUMMER 2018

Subject Code: 2172902**Date: 28-04-2018****Subject Name: Modern Weaving Technology****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) Give an equation for drag on a moving thread in an air stream.	03	
	(b) What type of water quality is used for Water-jet weaving?	04	
	(c) Discuss about the Modern warping creels.	07	
Q.2	(a) Give comparison between drum and loop type accumulators.	03	
	(b) How QSC can be exercised on modern looms?	04	
	(c) Explain cycle of operation of projectile loom.	07	
OR			
Q.3	(c) Explain picking arrangement of projectile weaving machine .	07	
	(a) Give the features of modern sizing machine.	03	
	(b) Give the features of multiphase weaving system.	04	
Q.3	(c) Discuss in detail about the types of Projectiles.	07	
	OR		
	Q.3	(a) Give advantages of water jet looms.	03
(b) How ETU works?		04	
(c) Explain about the projectile breaking system.		07	
Q.4	(a) Briefly explain the term-ESS.	03	
	(b) What type of technical problems arises in water jet loom ?	04	
	(c) Explain drive and let-off in context to Rapier loom.	07	
OR			
Q.4	(a) Give some idea about the term WBS.	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) Briefly explain the concept of 3-eyed feeler.	03	
	(b) How ELO operates?	04	
	(c) Explain the formation of tucked in and fused selvages for shuttleless weaving.	07	
OR			
Q.5	(a) Give the features of electronic jacquard.	03	
	(b) Draw a loom-timing diagram of air jet loom.	04	
	(c) Explain the shedding & beating of multiphase weaving machine	07	
