Date: 18/05/2019



Subject Code: 172902

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION - SUMMER 2019

Subject Name:Modern Weaving Technology Time: 02:30 PM TO 05:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		2:30 PM TO 05:00 PM Total Marks: 7 ons: Attempt all questions. Make suitable assumptions wherever necessary.	Marks: 70	
Q.1	(a) (b)	Give classification of rapier looms. With the help of neat diagram, explain loop transfer type of rapier weft insertion system in detail. Discuss pre-requisites of water jet loom. Also discuss advantages and disadvantages of water jet loom.	07	
Q.2	(a) (b)	Classify shuttleless looms. State and explain different types of weft supply packages used on shuttleless looms. Explain different phases of gripper circulation on projectile loom with the help of neat diagram.	07	
	(b)	OR With a neat sketch explain construction and working of picking mechanism of projectile loom.	07	
Q.3	(a)	With the help of neat diagram, explain the mechanism used for driving flexible	07	
	(b)	rapier head in detail. State the importance of selvedges and hence explain different types of selvedges produced on shuttleless looms in detail.	07	
Q.3	(a) (b)	OR Discuss the requirements of water used in water-jet looms. With the help of neat diagram, explain the weft insertion system of water-jet loom in detail. Discuss on propelling forces acting on weft yarn of air jet loom.	07	
Q.4	(a) (b)	Discuss the essential requirements for successful air jet weft insertion. Write a note, in detail, on compressor house of Air jet loom with the help of neat diagram.	07	
Q.4	(a)	OR Discuss need for modernization in weaving machine in India and pre-requisites	07	
	(b)	for the shuttleless loom. Write in detail on latest features of warping and sizing machines to prepare yarn for shuttleless looms.	07	
Q.5	(a)	State the objects of weft accumulators. With the help of neat diagram, explain the working of any one type of weft accumulator in detail.	07	
	(b)	Discuss in short on Propack, Variopack, Ecopack and Auto Tense in relation with Autoconer winding machine.	07	
Q.5	(a)	OR With the help of neat diagrams, wherever required, define flying start, flying end	07	
~	(b)	and lead angle. With the help of neat diagrams, explain different types of weft yarn tensioners used on shuttleless looms.	07	
