Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) - EXAMINATION – SUMMER 2016

Subject Code: 2162907 **Date:13/05/2016**

Subject Name: Weaving Technology - III

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.**

Q.1	**(a)**	Classify automatic shuttle looms. With the help of neat diagrams, explain cop change mechanism in detail.	**07**
	(b)	Compare bobbin loader with loom winder. With the help of neat diagram, explain loom winder in detail.	**07**
Q.2	**(a)**	With the help of neat diagram, explain side-sweep type of weft feeler in detail.	**07**
	(b)	Classify jacquards. With the help of neat diagrams, explain the mechanism provided for driving the pattern cylinder of double lift, double cylinder jacquard in detail.	**07**
		OR	
	(b)	State the requirements for production of terry fabrics. Explain principles of working of different types of mechanisms used for the production of terry fabrics.	**07**
Q.3	**(a)**	Explain, in detail, any one type of shuttle change mechanism with the help of neat diagram.	**07**
	(b)	State the objects of weft thread cutters provided on automatic shuttle looms. With the help of neat diagram, explain temple thread cutter in detail.	**07**
		OR	
Q.3	**(a)**	Compare lappet with swivel fabrics. With the help of neat diagram, explain the mechanism provided to give lateral movement to needle bars.	**07**
	(b)	State some of the advantages and disadvantages of cop change mechanism as compared to shuttle change mechanism.	**07**
Q.4	**(a)**	State the requirements for production of leno fabrics. Explain, in detail, the working of the said mechanism with the help of neat diagram.	**07**
	(b)	State the objects of let-off mechanism. Explain, in detail, any one positive let-off mechanism with the help of neat diagram.	**07**
		OR	
Q.4	**(a)**	State and explain the requirements for efficient working of cop change mechanism in detail.	**07**
	(b)	State the object of warp stop motion and hence explain the electrical warp stop motion, in detail, with the help of neat diagram.	**07**
Q.5	**(a)**	State and explain important parts of jacquard and their functions.	**07**
	(b)	With the help of neat diagram, explain the working of single lift, single cylinder jacquard in detail.	**07**
		OR	
Q.5	**(a)**	State the requirements for production of madras muslin fabrics. With the help of neat diagram, explain the mechanism provided to give lateral movement to tug reed.	**07**

(b) With the help of neat diagrams, explain different harness ties used in jacquard shedding mechanism in detail. **07**

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