Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V • EXAMINATION – WINTER • 2014

Subject Code: 152902 **Date: 28-11-2014**

Subject Name: Weaving - III

Time: 10.30 am - 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 diagram, explain cop change mechanism in detail.	**07**
	(b)	Compare bobbin loader with loom winder. Explain working of bobbin loader with the help of neat diagram.	**07**
Q.2	**(a)**	State the objects of let-off mechanism. With the help of neat diagram, explain working of let-off mechanism in detail.	**07**
	(b)	State the requirements for production of terry fabrics. Explain working of loose reed type terry mechanism with the help of neat diagram.	**07**
		OR	
	(b)	With the help of neat diagrams, explain different parts of jacquard in detail.	**07**
Q.3	**(a)**	Compare lappet fabric with swivel fabric. With the help of neat diagram, explain the mechanism used for lifting and lowering of needle bars of lappet loom.	**07**
	(b)	Give classification of weft feelers. With the help of neat diagram, explain photo electric type weft feeler in detail.	**07**
		OR	
Q.3	**(a)**	State the requirements for production of madras muslin fabric. With the help of neat diagram, explain the mechanism used for giving lateral movement to tug reed.	**07**
	(b)	With the help of neat diagrams, explain shuttle eye and temple thread cutters in detail.	**07**
Q.4	**(a)**	With the help of neat diagrams, explain working of double lift, double cylinder jacquard.	**07**
	(b)	With the help of neat diagrams, explain the principle of working of cross border jacquard.	**07**
		OR	
Q.4	**(a)**	What is casting-out in jacquard? Explain the same in detail with the help of suitable examples.	**07**
	(b)	With the help of neat diagrams, explain the working of any one automatic shuttle change mechanism in detail.	**07**
Q.5	**(a)**	State and explain the essential requirements to be considered at the time of weaving of fabrics using blended and filament yarns.	**07**
	(b)	With the help of neat diagram, explain the working of warp stop motion in detail.	**07**
		OR	
Q.5	**(a)**	Explain the working of leno mechanism in detail with the help of neat diagrams.	**07**
	(b)	With the help of neat diagram, explain different types of harness ties used in jacquards.	**07**

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