Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER V • EXAMINATION – WINTER - 2012

Subject code: 152902 **Date: 12-01-2013**

Subject Name: Weaving - III

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.**

Q.1	**(a)**	Give classification of Shuttle looms. With the help of neat diagram, explain Two Prong Electric Weft Feeler in detail.	**07**
	(b)	State the disadvantages of Cop Change loom over Shuttle Change loom.	**07**
Q.2	**(a)**	With the help of neat diagram, explain the working of stop Type Shuttle Change loom in detail.	**07**
	(b)	State the advantage of Bobbin Loader over Cop Change mechanism. With the help of neat diagram, explain the working of Bobbin Loader in detail.	**07**
		OR	
	(b)	State the requirements for efficient working of Loom Winder. With the help of neat diagram, explain the working of Loom Winder.	**07**
Q.3	**(a)**	State the objects of Let-off mechanism. With the help of neat diagram, explain the working of Let-off mechanism to achieve the said objects.	**07**
	(b)	State the requirements for production of Terry Fabrics. Explain, in detail, the principles of working of different types of terry mechanisms in detail.	**07**
		OR	
Q.3	**(a)**	Compare Madras Muslin Fabric with Lappet Fabric. With the help of neat diagram, explain the mechanism for giving lateral movement to needle bars in Lappet Loom.	**07**
	(b)	With the help of neat diagram, explain the working of Cop Change mechanism in detail.	**07**
Q.4	**(a)**	With the help of neat diagrams, explain different types of Weft Thread Cutters provided on Automatic Shuttle looms.	**07**
	(b)	State the requirements for production of Swivel Fabrics. With the help of neat diagram, explain the working of any one Swivel Loom in detail.	**07**
		OR	
Q.4	**(a)**	Explain the leno weaving mechanism with the help of neat diagram.	**07**
Q.4	**(b)**	Explain the different parts of the jacquard with neat diagram.	**07**
Q.5	**(a)**	Explain the principle of working of single lift single cylinder jacquard with neat diagram.	**07**
	(b)	Explain the different harness mounting systems with a neat diagram.	**07**
		OR	
Q.5	**(a)**	Explain the drive to griffe of double lift single cylinder jacquard with neat diagram.	**07**
	(b)	State and explain essential requirements for weaving of blended and filament yarns.	**07**

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