Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V EXAMINATION – WINTER 2015

Subject Code: 152902 **Date:17/12/2015**

Subject Name: Weaving - III

Time: 10:30am to 1:00pm **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)**	State the advantages of positive let-off over negative let-off mechanism. With the help of neat diagram, explain working of any one positive let-off mechanism in detail.	**07**
	(b)	State the object of loom winder. Explain working of loom winder with the help of neat diagram.	**07**
Q.2	**(a)**	State the requirements for production of lappet fabrics. Explain the mechanism used for giving lateral movement to needle bars of lappet loom with the help of neat diagram.	**07**
	(b)	State the objects of weft thread cutters provided on automatic shuttle looms and hence explain the same in detail with the help of neat diagrams.	**07**
		OR	
	(b)	Classify shuttle change looms. With the help of neat diagrams, explain the working of any one automatic shuttle change mechanism in detail.	**07**
Q.3	**(a)**	State the requirements for efficient working of cop change mechanism. Also, explain the said mechanism with the help of neat diagram.	**07**
	(b)	Give classification of weft feelers. With the help of neat diagram, explain diameter gauge type mechanical weft feeler in detail.	**07**
		OR	
Q.3	**(a)**	State the requirements for production of leno fabrics. Explain the working of leno mechanism in detail with the help of neat diagrams.	**07**
	(b)	State and explain different types of mechanisms developed for production of terry fabrics. Explain principle of working of fast reed type terry mechanism.	**07**
Q.4	**(a)**	With the help of neat diagrams, explain the mechanism provided for driving the pattern cylinder of double lift, double cylinder jacquard.	**07**
	(b)	With the help of neat diagrams, explain the principle of working of single lift, single cylinder jacquard.	**07**
		OR	
Q.4	**(a)**	State and explain different parts of jacquard in detail with the help of neat diagrams.	**07**
	(b)	With the help of neat diagram, explain the working of centre weft fork motion in detail.	**07**
Q.5	**(a)**	Compare madras muslin with swivel fabric. With the help of neat diagram, explain the mechanism used for giving lateral movement to gauze reed.	**07**
	(b)	State and explain different types of jacquard tie-ups in detail with the help of neat diagrams.	**07**
		OR	
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 working of bobbin loader in detail. **07**

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