Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V EXAMINATION – WINTER 2015

Subject Code: 152905 **Date:14/12/2015**

Subject Name: Textile Manufacturing Processes

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)**	Explain passage of material through ring frame with diagram.	**07**
	(b)	What is weaving mechanism? Show passage of warp threads through plain power loom.	**07**
Q.2	**(a)**	Explain working principle of rotor spinning with diagram.	**07**
	(b)	What is spinning? Give classification of convention and modern spinning system.	**07**
		OR	
	(b)	With neat sketch, explain air jet spinning process.	**07**
Q.3	**(a)**	Explain working of Dref-3 spinning system with a neat sketch.	**07**
	(b)	Compare ring and rotor spinning system.	**07**
		OR	
Q.3	**(a)**	Enlist primary and secondary motions of plain loom and briefly explain function of each.	**07**
	(b)	State the names of four shuttleless loom and explain any one with diagram.	**07**
Q.4	**(a)**	Define/explain the following terms, each term carry one mark: i. Warp ii. Weft iii. Filament iv. MJS v. Heald frame vi. Weave vii. Spreading	**07**
	(b)	Explain tappet shedding mechanism of plain power loom with a neat sketch.	**07**
		OR	
Q.4	**(a)**	Explain weft knitting process with diagram.	**07**
	(b)	What are the limitations of shuttle loom? Explain in brief.	**07**
Q.5	**(a)**	Explain in brief marker planning, spreading and cutting process of garment.	**07**
	(b)	Write short note “Application of nonwoven fabric”.	**07**
		OR	
Q.5	**(a)**	Mention classification of nonwoven techniques? Explain any one technique with diagram.	**07**
	(b)	Explain different types of seam with diagram.	**07**

****