Subject Code:162904

Subject Name: Technical Textiles-I

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI EXAMINATION - WINTER 2015

Date:14 /12/ 2015

		30pm to 5:00pm Total Marks: 70	
Inst	2.	Attempt all questions.	
Q.1	(a)	With the help of neat diagram, explain needle punch web formation method in detail. Also, explain different parameters which influence the quality of needle punch fabrics.	07
	(b)	Explain briefly, different materials used for coating of textile substrates.	07
Q.2	(a)	Define nonwoven fabric. With the help of neat diagram, explain wet laid web formation method in detail.	07
	(b)	State some of the applications of filter fabrics and hence explain the important requirements of properties of filter fabrics in detail for the said applications. OR	07
	(b)	Compare spunbond with spunlace fabric. With the help of neat diagram, explain the method of production of spunlace fabric in detail.	07
Q.3	(a)	State and explain different stages of formation of stitch bonded nonwoven fabric with the help of neat diagrams.	07
	(b)	State some of the advantages of asbestos fibres and hence explain their method of production in detail.	07
Q.3	(a)	OR Explain the method of production of tyre cords. Also, state some of their	07
Q.C	(4)	important properties.	
	(b)	Write short notes on: 1. Basofil fibres 2. Metal fibres	07
Q.4	(a)	State the requirements for textiles used for protective applications and hence explain some of the most important areas of applications of protective textiles.	07
	(b)	Define geotextiles. State and explain some of the areas of applications of geotextiles.	07
Q.4	(a)	OR Explain the method of production of kynol fibres. Also, state some of the	07
V. T	(a)	important properties and applications of said fibres.	07
	(b)	Classify fabric bonding techniques. With the help of neat diagram, explain adhesive bonding technique in detail.	07
Q.5	(a)	With the help of neat diagram, explain the process line used for the production of foam bonded fabric in detail. Also, state the parameters controlling the	07
	(b)	properties of foam bonded fabric. With the help of neat sketch, explain the process of coating with the help of Reverse roll coater.	07
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Q.5	(a) (b)	Write a brief note on "Hot-melt Coating". State and explain some of the important applications of coated fabrics.	07 07
