



GUJARAT TEVENTÜR GEREN UNI WEVE EITER Anker.com

BE- SEMESTER-V (NEW) EXAMINATION - WINTER 2020

Subject Code:3152909 Date:01/02/2021

Subject Name:Fabric Formation III

Time:10:30 AM TO 12:30 PM Total Marks: 56

Instructions:

- 1. Attempt any FOUR questions out of EIGHT questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	3. Fig	gures to the right indicate full marks.	
			MARKS
Q.1	(A)	Define nonwoven fabric.	3
	(B)	Explain leno weaving principle	4
	(C)	With the help of neat diagram, explain the torsion bar mechanism of Sulzer projectile loom in detail.	7
Q.2	(A)	Compare rigid rapier with flexible rapier loom.	3
	(B)	State and explain different ways of classifying rapier looms.	4
	(C)	With the help of neat diagram, explain double rapier tip transfer type weft insertion system in detail.	7
Q.3	(A)	What is braiding? Name different braiding technique.	3
	(B)	Discuss application of nonwoven fabric in Geotextiles	4
	(C)	Compare of different web bonding techniques.	7
Q.4	(A)	Discuss application of nonwoven fabric in Automotive textiles.	3
	(B)	Define nonwovens. Give the sequence of operation followed for manufacturing of nonwovens.	4
	(C)	Discuss importance of fibre orientation for nonwoven fabric. How to measure it.	7
Q.5	(A)	State different types of weft accumulators used in shuttleless looms.	3
	(B)	Compare rigid rapier with flexible rapier loom	4
	(C)	With a neat diagram explain the operation of Weft supply system on Water jet weaving machine.	7
0.6	(4)		2
Q.6	(A)	Draw a loom-timing diagram of air jet loom.	3
	(B)	Explain west insertion system of air jet weaving machine.	4
	(C)	What is leno selvedge? Explain the working of leno selvedge with neat diagram.	7
Q.7	(A)	Discuss the application of nonwoven filters.	3
	(B)	Discuss the current market growth of nonwoven industry.	4
	(C)	Discuss the environmental application of nonwovens.	7
Q.8	(A)	State the effects which may be achieved by Mechanical Finishing	3
	(B)	Discuss 3D woven fabric manufacturing technique.	4
	(C)	Discuss the any one polymer lay processes carried out in the Nonwoven web formation.	7
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