water-jet loom.

(b) Explain weft insertion mechanism in Nissan

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14 1	BT-5/D-14	858
	FABRIC MANUFACTURING	
	TT-305	b.
	Three Hours] [Maximum M	arks : 10
23	Attempt Five questions in all, selection one question from each Unit. All question equal marks. Unit I	ig at leas
(b)	Give a classification of different rapier loom and describe in bri insertion mechanism for each type alsuitable diagrams. With the help of suitable diagram the west transferring mechanism from head to another head of a Dewas type. Compare west velocity of different to	ef weft ong with 12 explain on one rapier. 8
	looms with suitable explanation.	ypes of 10

٠.		Unit II
3,	(a)	What are the factor affecting pneumatic west propulsion?
	(b)	Derive the expression showing the amount of propulsion force on an element of weft.
	(c)	What are the different technique of splicing and knotting of yern?
4.	(a)	A 25 Tex cotton warp containing 3600 ends has 9% size add on. The maximum drying capacity is 550 kg/hr. Concentration is 8%. Calculate the optimum sizing speed which ensured that the moisture regain of the sized yarn is 8. The moisture regains of the unsized warp is 8.5%.
?	(b)	Derive the equations to estimation of strain energy in the torsion bar in projectile weaving.
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P.T.O.

Unit III

- 5. (a) What do you understand by positive continuous take up mechanism? 6
 - (b) Explain above mechanism with the help of a suitable practical example. 10
 - (c): What are the advantages of quick style change system?
- (a) With the help of a suitable diagram explain working mechanism of an electronic jacquard.
 - (b) What are the requirements of selvedges?
 Explain the mechanism of producing lenoselvedge.
 10

Unit IV

- (a) Discuss the method of manufacturing fibrous web by the Rando-Feeder and the Randowebber machine of Curlator Corp., USA. 10
 - (b) Describe the method of manufacturing nonwoven fabrics by stitch bonding technique with binding thread system on a Maliwat machine.

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8.	(a)	Discuss the method of manufacturing	
		web by direct polymer-to-web sys	
	- : - : -		
	(b)	Discuss the basic mechanism of	binding
-	.;	nonwoven fabrics in needle p	unching
5		machine.	10
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