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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VIII (New) EXAMINATION - WINTER 2019 Subject Code: 2182902 Date: 29/11/2019 Subject Name: Process & Quality Control in Weaving Time: 02:30 PM TO 05:00 PM Timstructions: 1. Attempt all questions. 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.1	(a) (b)	Which loom mechanism/parts affect loom speed? Discuss any two in short.	03 04	
	(c)	Explain variable staggering of healds and asymmetric shedding tappets.	07	
Q.2	(a) (b)	Give equation to calculate operative efficiency. Following data is available from slub catcher: No. of objectionable faults : 235 No. of knots put : 174 No. of objectionable faults removed by slub catcher : 65 Calculate clearing efficiency, knot factor and quality factor of the slub catcher.	03 04	
	(c)	Explain in detail various quality point about sizing beams. OR	07	
	(c)	Write in detail on stops on loom due to shuttle change and loss of efficiency due to same.	07	
Q.3	(a)		03	
		Discuss on weft tension control in shuttle	04	
	(c)	Write a short note on effect of condition of machine on end breaks at	07	
		warping. OR		
Q.3	(a)		03	
	(b)	Explain terms like clearing efficiency, knot factor, relative strength of splice and clearing curve. What is the importance of these terms?	04	
	(c)	Discuss effect of depth of immersion roller, level of size paste and density of ends on average size pick up.	07	
Q.4	(a)	What is recommended creel tension level for warping? Give value of tension and weight of discs for high speed warping for different count groups.	03	
	(b)	List causes & remedies for patterning damage occurring on wound bobbins.	04	
	(c)	Write a short note on hard waste control in weaving preparatory processes. OR	07	
Q.4	(a)	Give sizing-weaving curve and hence discuss how optimum size pick up level is decided?	03	
	(b)	With sketch explain in short use of after waxing. How it helps in improving performance at sizing?	04	



strar	nkor'	^s Discuss causes and remetric frankey condefects: www.FirstRanker.co (i) Weft Bar (ii) Weft Snarl	com
Q.5	(a)	Write three points to control small weft loop (Phurkies) damage.	03
-	(b)	What are the causes of tightness/slackness in shed connections? How ratio of front and back heald shaft lift is calculated?	04
	(c)	Discuss in short what special care is required during weaving of Polyester Filament yarn as weft in shuttle looms?	07
		OR	
Q.5	(a)	What are the effects of reed parameters on weaving performance? What is air space?	03
	(b) (c)	What do you understand by smoothness of shedding in a loom? Write in detail on role of swell release mechanism in shuttle checking.	04 07

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