

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018

Subject Code: 2182902

Date: 29/11/2018

Subject Name: Process & Quality Control in Weaving

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Give ATIRA's recommendations for uniformity of Dent spacing in reed.	03
	(b) State the importance of Quality of knots ? Which are suitable for cotton & polyester blend yarns ? How knots are dangerous ?	04
	(c) Which are the factors affecting loom efficiency ? Suggest the correct method for the calculation.	07
Q.2	(a) State the functions of Grey Inspection Department in weaving.	03
	(b) How the package faults wild yarn & chaffed yarn occurs?	04
	(c) Explain the effect of immersion roller, squeezing roller & size-paste level on average size pick-up ?	07
	OR	
	(c) State the causes of weft breaks on loom & suggest it's remedies.	07
Q.3	(a) What it means by " Machinery Audit "?	03
	(b) What are the steps would like to take to minimize the end breakage rate at Pirn winding ?	04
	(c) Discuss in detail about Reed marks & Patti along with it's causes and remedies.	07
	OR	
Q.3	(a) How one can control the Hard Waste in weaving department?	03
	(b) Describe about Single Moti- a fabric defect.	04
	(c) Discuss on control of yarn stretch at sizing	07
Q.4	(a) Briefly explain about Process type hard waste.	03
	(b) What are the causes of low productivity at Warping ?	04
	(c) Discuss in detail about Jerki & Temple marks along with it's causes and remedies.	07
	OR	
Q.4	(a) State the formula of Clearing efficiency & Knot factor of slub catcher.	03
	(b) Explain any two factors helps to minimize end breaks at warping.	04
	(c) Give causes & remedies of Weft bar and Furkies fabric damage.	07
Q.5	(a) How the Reed parameters effect on weaving performance?	03
	(b) Discuss any two factors plays important role for improving the Quality of Warping beams.	04
	(c) 'Unwinding tension at winding is considered as an important parameter.'- Justify.	07
	OR	
Q.5	(a) Briefly explain methodology of direct process control.	03
	(b) Discuss the role of slub-catcher for efficient removal of yarn faults.	04
	(c) Write a note on fabric defects- Lashing-In and Chira.	07
