

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2024

Subject Code:3172914

Date:30-11-2024

Subject Name: Technology of Denim Manufacturing

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Enlist application areas of denim.	03
	(b) Write note on history of Denim.	04
	(c) Write in detail about the denim yarns. Which are the dyes commonly used for denims? Discuss their combinations and features.	07
Q.2	(a) Which types of weaves and fibres used to produce denim fabric?	03
	(b) List out the sequence of operations required to manufacture denims.	04
	(c) Discuss the special features of rope dyeing process in denim manufacturing.	07
	OR	
	(c) Discuss in detail about the sewing of denim fabric.	07
Q.3	(a) Which factors are considered while choosing the sewing threads?	03
	(b) Describe briefly ball warping.	04
	(c) Write in detail on types of washes.	07
	OR	
Q.3	(a) How functional finishing of denim carried out?	03
	(b) Write briefly on slasher dyeing and sizing.	04
	(c) Write briefly on finishing treatment given on denim fabric.	07
Q.4	(a) Draw chart of final operation and inspection of denim.	03
	(b) Discuss briefly about looptex technology.	04
	(c) Write briefly on factors affecting indigo dyeing.	07
	OR	
Q.4	(a) What is the weight range for different denim fabrics?	03
	(b) Write short note on the non-indigo dyes used for denim manufacturing.	04
	(c) Write a note on the tests conducted and measures taken to control quality in denim manufacturing.	07
Q.5	(a) What are enzymes used for jeans washing?	03
	(b) Write short note on garment dyeing process.	04
	(c) Write brief note on denim weaving machine.	07
	OR	
Q.5	(a) Explain briefly skewing in denim.	03
	(b) How digital printing on denim carried out?	04
	(c) Write briefly about factors affecting washing effect on denim.	07
