

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII EXAMINATION – WINTER 2025

Subject Code:3172914

Date:20-11-2025

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) State the features of denim.	03
	(b) Which are the fibres mainly used in manufacturing denims.	04
	(c) Explain the process flow for denim manufacturing.	07
Q.2	(a) Write briefly about the elastic denim yarn.	03
	(b) Which are stitches mainly used during sewing of denim fabric?	04
	(c) Explain the weaving process in denim manufacturing.	07
	OR	
	(c) Explain the different types of washing of jeans.	07
Q.3	(a) State the types of denim fabric.	03
	(b) Write briefly about magazine creel used in warping.	04
	(c) Discuss the development of Indian denim industry.	07
	OR	
Q.3	(a) Write briefly about structured denim yarns.	03
	(b) Compare ball warping and beam warping.	04
	(c) Explain the spinning of yarn for denim.	07
Q.4	(a) What is beam dyeing?	03
	(b) Write briefly about the slasher dyeing process.	04
	(c) Discuss about the indigo dyes and sulphur dyes used in denim manufacturing.	07
	OR	
Q.4	(a) Which are the needles mainly used in sewing denim fabric?	03
	(b) Write briefly about dyeing with non indigo dyes.	04
	(c) Explain the rope dyeing process with a neat sketch.	07
Q.5	(a) What is knitted denim?	03
	(b) Write in brief about the sewing of denim fabric.	04
	(c) Explain the digital printing process of jeans.	07
	OR	
Q.5	(a) Write briefly about dyeing of jeans.	03
	(b) Discuss the finishing of denims.	04
	(c) Write in detail about the quality assurance activities carried out in the denim manufacturing industry.	07
