

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:3172914

Date:22-05-2024

Subject Name:Technology of Denim Manufacturing

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.
4. Simple and non-programmable scientific calculators are allowed.

		Marks
Q.1	(a) Write in short on sodium hydrosulphite concentration testing.	03
	(b) Which are sustainable reducing agents for denim manufacturing?	04
	(c) With flow chart explain how denim fabric is manufactured.	07
Q.2	(a) Which are special features of ecru denim?	03
	(b) How the concept of digital printing can be used in denim?	04
	(c) Discuss in detail about finishing of denim fabric.	07
	OR	
	(c) Write in detail on warping process for denim manufacturing	07
Q.3	(a) What is meant by terms Denim and Jeans?	03
	(b) Which are common yarn types and counts to be used for denim?	04
	(c) Write a short note on indigo production.	07
	OR	
Q.3	(a) How pH of dye bath is evaluated?	03
	(b) Discuss briefly about the typical denim constructions, weaves, and weights.	04
	(c) Explain the sheet dyeing process with neat sketch.	07
Q.4	(a) Discuss briefly about looptex technology.	03
	(b) What is CSV problem in denim and how it can be prevented?	04
	(c) Compare and contrast rope against sheet dyeing process.	07
	OR	
Q.4	(a) Write briefly about knitted denims.	03
	(b) Write briefly about the washing process.	04
	(c) Discuss the modifications in shuttleless looms for manufacturing denim fabric.	07
Q.5	(a) Mention the features of magazine warping creels.	03
	(b) Write briefly about the specialty denim yarns.	04
	(c) Discuss in detail about the sewing of denim fabric.	07
	OR	
Q.5	(a) Write in short on non-indigo dyes used for denim manufacturing.	03
	(b) Write in short on history of denim.	04
	(c) Write in detail about the spinning process of yarn for denim.	07
