

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2182908****Date:20/05/2019****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.

		MARKS
<b>Q.1</b>	(a) What is the history of denim and jeans?	<b>03</b>
	(b) Discuss briefly about the typical denim constructions, weaves, and weights.	<b>04</b>
	(c) Write in detail about the process flow for denim fabric manufacturing.	<b>07</b>
<b>Q.2</b>	(a) Write briefly about the non-indigo dyes used for denim manufacturing.	<b>03</b>
	(b) Which are the common yarn sizes for denim?	<b>04</b>
	(c) Write in detail about the spinning process of yarn for denim.	<b>07</b>
	<b>OR</b>	
	(c) Write a short note on indigo production.	<b>07</b>
<b>Q.3</b>	(a) Mention the features of magazine creels.	<b>03</b>
	(b) Write briefly about the structured denim yarns.	<b>04</b>
	(c) Write a short note on warping process in denim manufacturing.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) What are eco-friendly reducing agents?	<b>03</b>
	(b) Explain the concept of digital printing.	<b>04</b>
	(c) Explain the rope dyeing process with neat sketch.	<b>07</b>
<b>Q.4</b>	(a) Discuss briefly about looptex technology.	<b>03</b>
	(b) Write briefly about SBIT and IBST.	<b>04</b>
	(c) Discuss the modifications in shuttleless looms for manufacturing denim fabric.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Write briefly about Sodium hydrosulphite concentration testing.	<b>03</b>
	(b) Write briefly about dyeing of jeans.	<b>04</b>
	(c) Discuss in detail about finishing of denims.	<b>07</b>
<b>Q.5</b>	(a) State the special features of ecru denim.	<b>03</b>
	(b) Write briefly about knitted denims.	<b>04</b>
	(c) Discuss in detail about the sewing of denim fabric.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Write briefly about the evaluation of pH of dye bath.	<b>03</b>
	(b) Write briefly about the washing process.	<b>04</b>
	(c) Discuss the tests conducted and measures taken to control quality in denim manufacturing.	<b>07</b>

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