

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– IV(NEW) EXAMINATION – SUMMER 2023

Subject Code:3142907**Date:17-07-2023****Subject Name:Textile Processing****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 objectives of bleaching.	03
	(b) Classify dyes according to their applications.	04
	(c) Explain the chainless padless mercerising machine with a neat sketch.	07
Q.2	(a) Give the general sequence of wet processing.	03
	(b) Classify different types of finishes and enlist them.	04
	(c) Discuss the process hydrogen peroxide bleaching with its recipe and process parameters.	07
	OR	
	(c) Describe about complete HTHP dyeing process of polyester textiles using disperse dyes.	07
Q.3	(a) Enumerate on shearing and cropping process with its significance.	03
	(b) Discuss technological aspects involved with chlorine desizing method.	04
	(c) Write note on vatting of vat dyes.	07
	OR	
Q.3	(a) State the objectives of calendaring.	03
	(b) Explain the working of gas singeing machine with neat sketch.	04
	(c) Explain the working of Schreiner calendar with neat diagram.	07
Q.4	(a) What is the need for textile processing.	03
	(b) What are enzymes? Give their principle working.	04
	(c) Explain pressure kier scouring machine with neat sketch.	07
	OR	
Q.4	(a) Enlist the methods & Styles of printing.	03
	(b) Write a short note on Flame Proof Finish.	04
	(c) Describe principle and working of roller printing machine with a neat sketch.	07
Q.5	(a) Give the classification of softeners.	03
	(b) State basic difference between water proof and water repellent fabric.	04
	(c) Write a short note on durable press finish.	07
	OR	
Q.5	(a) Enlist the ingredients of printing paste.	03
	(b) Explain the direct style of printing of cotton with Vat dye.	04
	(c) Enlist the different methods of print fixation? Discuss any two.	07
