

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2023****Subject Code:3142907****Date: 06-02-2024****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) Give classification of dyes.	03
	(b) Discuss technological aspects involved with chlorine desizing method.	04
	(c) What are the enzymes? Discuss enzymatic desizing process.	07
Q.2	(a) Write objects of mercerizing process.	03
	(b) Give the classification of softeners.	04
	(c) Explain the chainless padless mercerising machine with a neat sketch.	07
	OR	
	(c) Depict the construction and working of gas singeing machine.	07
Q.3	(a) Draw the flow chart of textile wet processing.	03
	(b) Polyester fibre is difficult to dye. Why?	04
	(c) Explain the direct style of printing of cotton with vat dye	07
	OR	
Q.3	(a) State the different objects of Scouring.	03
	(b) What is limited oxygen index?	04
	(c) Explain friction calendar with neat diagram.	07
Q.4	(a) State the different between dyeing and printing.	03
	(b) Define permanent and semi-permanent finishes in detail.	04
	(c) Write the working and principle of scouring with J box with neat diagram.	07
	OR	
Q.4	(a) Write a note on different style of printing.	03
	(b) What is the difference between hypochlorite and peroxide bleaching?	04
	(c) Write the note on transfer printing? State the four advantages and disadvantage for transfer printing.	07
Q.5	(a) What is the difference between oxidative and reductive bleaching?	03
	(b) What is finishing? Write the different type of finishes.	04
	(c) Write the working and principle of rotatory screen-printing machine with neat diagram.	07
	OR	
Q.5	(a) State the difference between waterproof and water repellent finish.	03
	(b) Explain the resist type of printing.	04
	(c) Describe the working of automatic flat bed screen printing machine with a neat sketch.	07
