Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) - EXAMINATION - SUMMER 2017

Subject Code: 2152802 Date: 05/05/2017

Subject Name: Technology of Dyeing -I

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.

			MARKS
Q.1		Short Questions	14
	1	When 2 gm dye is dissolved in 100 ml of water will give% of shade.	1
	2	Dye = + Chromophore	1
	3	Differentiate dye and pigment on basis of substantivity.	1
	4	Give some trade names of reactive dyes.	1
	5	State the function of mordant in application of basic dye on cotton.	1
	6	The depth of shade with increase in MLR.	1
	7	Dyeing is done mainly using as a medium.	1
	8	Differentiate between denim and jeans.	1
	9	Rapidogen colour = + Naphtholate.	1
	10	Name the dye class applied on polyester fabric.	1
	11	Expand IBST in context to denim.	1
	12	Most commonly used dyeing machine for cotton fabrics is	1
	13	MCT dyes are commercially known as reactive dyes.	1
	14	The chemical name of Ramazol dyes is	1
Q.2	(a)	State the classification of direct dyes.	03
	(b)	Give idea about sulphur black tendering.	04
	(c)	Enlist various faults and their remedies occurring in cotton dyeing.	07
		OR	.=
	(c)	Describe the application of dyeing for mineral khaki colours on cotton drill fabric.	07
Q.3	(a)	Introduce aniline black colour.	03
	(b)	Describe the application method of aniline black colour on cotton textiles.	04
	(c)	Explain in detail factors affecting dyeing of cotton with direct dye.	07
		OR	
Q.3	(a)	Describe the application method of DCT dyes.	03
	(b)	Classify the reactive dyes on their reactivity and substantivity.	04
	(c)	Discuss in detail different steps in the development of Azoic Colour.	07
Q.4	(a)	Give the concept of RFT dyeing.	03
	(b)	Write a short note on bifunctional reactive dyes.	04
	(c)	Describe principle of application of vat dyes on Cotton. OR	07
Q.4	(a)	Explain about MLR.	03
	(b)	Give classification of dyes.	04
	(c)	Explain about vinyl sulphone dyes with their principle and	07

		application method involved.	
Q.5	(a)	State the mechanism of dyeing in general.	03
	(b)	Give few words on pigment dyeing.	04
	(c)	Enlist different after treatments given to direct dyed cotton	07
		fabric. Describe any two popular methods.	
		OR	
Q.5	(a)	Enlist various properties of sulphur dyes.	03
	(b)	Give stripping methods of vat dyes from cotton.	04
	(c)	Discuss rope dyeing method of dyeing indigo blue on denim.	07
		Compare and contrast with another method.	
