Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V(New) • EXAMINATION - WINTER 2016

Subject Code:2152802 Date:24/11/2016

Subject Name: Technology of Dyeing -I

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.

Q.1		Short Questions	14
	1	Which catalyst is used for producing Aniline Black colour?	1
	2	What are fast salts?	1
	3	What is the most favoured pH during Coupling?	1
	4	Explain M.L.R. 1:40	1
	5	Why do reactive dyes have good wash fastness property?	1
	6	What are Mineral Colours?	1
	7	Which shades are popular in Sulphur Dyes?	1
	8	What is meant by ring dyeing of denim?	1
	9	Give some trade names of Solubilised Vat Dyes.	1
	10	The outstanding property of basic dye is	1
	11	Define "% exhaustion".	1
	12	Give meaning of RFT.	1
	13	Name the two organic salts used to obtain mineral khaki shade.	1
	14	Dye =+	1
Q.2	(a)	Give a detailed classification of vat dyes.	03
	(b)	Enlist various faults & remedies occurring in cotton dyeing.	04
	(c)	Describe dyeing of mixed shades on denim.	07
	(a)	OR	07
	(c)	Explain the chemistry and application of chlorotriazine reactive dyes on cotton.	07
Q.3	(a)	Give the principle to develop mineral khaki shade.	03
Q.D	(b)	Elaborate on the after treatments given to direct dyed cotton	04
	()	fabric.	
	(c)	Discuss the chemistry and application of basic dyes on cotton. OR	07
Q.3	(a)	Give the advantages and limitations of oxidation colours over conventional cotton colours.	03
	(b)	Describe the dyeing process using pigments.	04
	(c)	Write detailed note on 'stabilized diazotized bases'.	07
Q.4	(a)	State on "classes of direct dyes".	03
	(b)	Explain the chemistry and application of vinyl sulphone dyes in brief.	04
	(c)	Describe various steps involved in application of vat dyes with	07
		chemistry and technical aspects.	
0.4	(a)	OR Write a short note on "sulphur black tendering".	02
Q.4	(a)	Note down the detailed application process of indigosol dyes	03 04
	(b)	on cotton fabric.	U4
	(c)	With all technical details discuss different steps of developing	07
	(*)	azoic colours on cotton.	٠,
Q.5	(a)	Give certain stripping process of vat dyes.	03

	(b)	Discuss some technical details involved with application of	04
		aniline black colours.	
	(c)	Describe in detail the dyeing of cotton with Direct dye.	07
		OR	
Q.5	(a)	Introduce sulphur dyes.	03
	(b)	Discuss chemistry and properties of Indigosol dyes.	04
	(c)	Discuss the effect of salt and temperature on application of	07
		direct dyes.	
		-	
