Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEM-VI Examination-Nov/Dec-2011

Subject code: 162801 **Date: 21/11/2011**

Subject Name: Technology of Dyeing-II

Time: 10.30 am -1.00 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	**(a)**	Answer in brief. i) Name any two machines used for yarn dyeing. ii) What is meant by Back tan process in nylon dyeing? iii)Which compounds are widely used as dispersing agents? iv) Which monomer is added in PET to convert it in to CDPET? v) _____ denier fibers are classified as micro filament polyester fiber. vi) Dry spun acrylic fiber is known as _____. vii) State the combinations used for dyeing Wool/ PAN blend.	**07**
	(b)	Describe dyeing of loose acrylic fibers with all technical aspects.	**07**
Q.2	**(a)**	Describe dyeing of silk fiber with any suitable dye and with its advantages and limitations.	**07**
	(b)	Discuss processing of Polyester/ Viscose blend.	**07**
		OR	
	(b)	Discuss processing of Polyester/Wool blend.	**07**
Q.3		Discuss with reference to polyester dyeing a)Effects of metals and dispersing agent b) Selection of auxiliaries.	**14**
		OR	
Q.3		Give salient features of micro fiber polyester. Describe its processing method and enlist all practical problems and their correction during dyeing.	**14**
Q.4		Discuss mechanism of Nylon dyeing with acid dyes. Describe dyeing with chrome dyes with different methods.	**14**
		OR	
Q.4		Why Polypropylene is difficult to dye? Describe various attempts to make it dyeable.	**14**
Q.5		Give principal, working and construction of HTHP beam dyeing machine and Jiggers.	**14**
		OR	
Q.5		Give principal, working and construction of Standfast molten metal dyeing m/c and loose cotton fiber dyeing m/c.	**14**

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