

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – WINTER • 2014

Subject Code: 162801

Date: 26-11-2014

Subject Name: Technology of Dyeing-II

Time: 02:30 pm - 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.

- Q.1 (a) **Answer in short :** 07
- i).The application pH of Super milling acid dye is _____
 - ii).What are Chrome Dyes.
 - iii).The filament Denier in microfilament Polyester is _____
 - iv).State the Drawbacks of Carrier dyeing of Polyester.
 - v).Explain the concept of Rapid dyeing.
 - vi).What are modacrylic fibre.
 - vii).Where Cellestrene dyes are used.
- (b). Explain Processing of Microfilament Polyester fabric with special reference to the practical difficulties during its processing and its correction methods. 07
- Q.2 (a) **Answer to The point.** 07
- i).Salt acts as an Exhausting agent in Wool Dyeing. Is it true or false. Justify.
 - ii).Temperature during Silk processing need not be exceeded beyond 85 c.Why?
 - iii).What are Leveling acid dyes.
 - iv).Enlist Dyes used for Silk dyeing.
 - v).State the Principle of Package dyeing m/c.
 - vi).Enumerate some developments in Padding mangles.
 - vii).Which form of the fabric is dyed in Molten metal dyeing m/c.(Fibre/Filament/Rope/Open width).
- (b) Enlist all possible Dyes suitable for Wool dyeing. Explain application of Acid-mordant dye on it. 07
- OR**
- (b) Explain Silk dyeing with the commonly used dyes with all processing details. 07
- Q.3 Describe: with All practical precautions Processing of Cationic-Dye able Polyester 14
- OR**
- Texturised Polyester along with their salient features.
- Q.4 Discuss in detail Processing of Polyester-Cotton blend with Disperse-Vat system by all possible methods. 14
- OR**
- Q.4 Describe in detail the Isothermal Processing of PAN. 14

Q.5

Explain any **Two** Dyeing machine with Principle, Construction 07
& Working (M/c sketch is necessary):

- (a) Cop & Cheese Dyeing m/c.
- (b) Long close Loose Cotton Dyeing m/c.
- (c) Beam Dyeing m/c
- (d) Jiggers
