

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE SEM-VI Regular Examination May 2011**

**Subject code: 162801**

**Subject Name: Technology of Dyeing-II**

**Date: 16/05/2011**

**Time: 10.30 am – 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 (a)** Answer the following Objectives : **07**
- State the Principal of Winch Dyeing Machine.
  - \_\_\_\_\_ Levelling agents are used in Nylon Dyeing.
  - What are Procelan Dyes.
  - What is meant by Rapid Dyeing machine?
  - CDPET can be dyed only by Disperse dyes. State True or False Justify your answer.
  - Wet spun & Dry spun Acrylic fibre is known as \_\_\_\_\_ & \_\_\_\_\_.
  - Define Disperse Dyes.
- (b)** Explain the function of Dispersing agent & Levelling agent in Dyeing of Polyester with Disperse Dyes.. **07**
- Q.2 (a)** What are the Salient features of Micro denier Polyester fibre. Elaborate Practical difficulties during its processing. **07**
- (b)** Describe with all technical details : Processing of CDPET **07**
- OR**
- (b)** Textured Polyester **07**
- Q.3 (a)** Give various reasons for Barriness in Nylon Dyeing & Suggest suitable correction methods. **07**
- (b)** Explain different methods of dyeing Acid-Mordant Dyes. **07**
- OR**
- Q.3 (a)** Classify & Explain mode of action of different Levelling agents on Nylon. **07**
- (b)** Discuss Various attempts to dye Polypropylene fibres. **07**
- Q.4 (a)** Discuss Dyeing of Silk with Acid mordant and Basic Dyes. **07**
- (b)** Classify Acid Dyes. Explain in detail Dyeing of Wool with Acid Dyes. **07**
- OR**
- Q.4 (a)** Describe Dyeing of Polyester/Viscose Blend with Disperse-Vat system with different methods. **07**
- (b)** Explain all the steps adopted in Dyeing of Acrylic Hanks. **07**
- Q.5 (a)** Give some Advanced version of Padding mangles along with Conventional ones. **07**

(b) Explain with neat sketch Principal, Construction & Working of Soft flow Jet dyeing machine. 07

**OR**

**Q.5** Explain Working & Construction of : 07

(a) Loose cotton Dyeing M/c

(b) HTHP Beam Dyeing M/c 07

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