

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**
- (i) State the Principal of Winch Dyeing Machine.
- (ii) _____ Levelling agents are used in Nylon Dyeing.
- (iii) What are Procelan Dyes.
- (iv) What is meant by Rapid Dyeing machine?
- (v) CDPET can be dyed only by Disperse dyes. State True or False Justify your answer.
- (vi) Wet spun & Dry spun Acrylic fibre is known as _____ & _____.
- (vii) 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
