

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- VIth SEMESTER–EXAMINATION – MAY- 2012****Subject code: 162801****Date: 09/05/2012****Subject Name: Technology of Dyeing-II****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 in short. **07**
i) State the principal of Standfast molten metal dyeing machine.
ii) What is meant by barriness in dyeing?
iii) What is meant by Rapid Dyeing?
iv) What is CDPET?
v) Wet spun acrylic fiber is known as _____.
vi) Why polypropylene is difficult to dye?
vii) Which combinations are used for dyeing PET/wool blend?
- (b)** Give salient features of micro fibers. Describe its processing in detail with practical difficulties. **07**
- Q.2 (a)** Discuss problems in dyeing of texturised polyester **07**
(b) Describe dyeing of polyester by HTHP dyeing method. **07**
- OR**
- (b)** Describe dyeing of polyester by Thermosol dyeing method. **07**
- Q.3 (a)** Describe dyeing of Nylon with Disperse-Reactive dyes. **07**
(b) Describe dyeing of Nylon with Acid mordant dyes. **07**
- OR**
- Q.3 (a)** Write a note on Leveling agents for Nylon. **07**
(b) Describe process and mechanism of wool dyeing with acid dyes. **07**
- Q.4** Describe processing of CDPET and its blends from its scouring stage. **14**
- OR**
- Q.4** Write short notes on **14**
(a) Dyeing of acrylic hanks
(b) Mass coloration of Polypropylene
- Q.5** Describe principal, Construction and working of Soft flow jet dyeing m/c and jiggers. **14**
- OR**
- Q.5** Describe principal, construction and working of Cop and Cheese dyeing m/c and Padding mangles. **14**
