Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI (NEW). EXAMINATION - WINTER 2016

Date: 22/10/2016

Subject Code: 2162801

Subject Name: Technology of Dyeing - II

Time: 10:30 AM to 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** Answer in Brief: 14 (1) Barriness is a common problem dveing.State Polyester True/False.Justify your answer. (Nylon 6,66,11) is used in Textile apparel. (3) Acid act as an exhausting agent in Wool dyeing. Correct the statement if it is false. (4) Silk is never dyed at a temperature higher than 85*C.Why? (5) Procilan is a combination of ___ (6) Milling acid dye is applied at a pH (7) Why antimigrating agent is added during thermosol dyeing of Polyester. (8) Give some trade names of Disperse dyes. (9) Why PP is difficult to dye. (10) What do you understand by isothermal dyeing of Acrylic fibre. (11) Which combination of dyes are used for dyeing P/C blend. (12) CDPET can be dyed by only cationic dye. Give your comment. (13) How Microdeneir PET is different from convential PET. (14) What are Cellestrene dyes. **Q.2** (a) Give classification of Acid dyes with their properties. 07 **(b)** Explain dyeing mechanism of Nylon with Acid dyes. 07 Explain Effect of Acid & Salt in Wool dyeing with acid dyes. 07 **(b)** 0.3 Enlist& Explain different methods of dyeing Polyester fibre. Give advantages 14 &limitations of each method over one another. **Q.3** Describe with all technical details, Processing of Microdenier Polyester fibre. 14 **Q.4** Discuss dyeing of Silk with any of the conventional dyes with precautions at 07 (a) each stage. Describe dyeing of PAN fibre by Isothermal dyeing method. **(b)** 07 OR Explain dyeing of P/C blend with Disperse/Reactive system by different **Q.4** 07 (a) methods. Write a note on Cationic Dyes. **07 (b)** Describe any one Loose Cotton dyeing machine **Q.5** (a) **07** Write a note on Jiggers **(b)** 07 OR Q.5 With neat sketch, Explain construction & working of Jet dyeing machine. 07 (a) **(b)** Write a note on Material for construction of dyeing machines. 07 *****