

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) - EXAMINATION – SUMMER 2016****Subject Code:2152802****Date:21/05/2016****Subject Name:Technology of Dyeing -I****Time:02:30 PM to 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) Give classification of vat dyes based on their application methods. **07**  
(b) Describe Continuous method of dyeing vat dyes on Cotton. **07**
- Q.2** (a) Explain chemistry of chlorotriazine dyes. **07**  
(b) Write a note on bifunctional reactive dyes. **07**
- OR**
- (b) Give a list of all reactive system of reactive dyes along with their commercial names. **07**
- Q.3** Describe technological process parameters of dyeing direct dye on cellulosic fabric. **14**
- OR**
- Q.3** Enlist and explain all the available methods of after treatment of direct dyes on cotton. **14**
- Q.4** (a) Discuss sheet dyeing method of dyeing denim. Give its limitations. **07**  
(b) Describe producing mixed shades of sulphur-indigo on denim. **07**
- OR**
- Q.4** (a) Write a note on indigosol dyes. **07**  
(b) Give stripping method of colour removal of indigosol dye from cotton. **07**
- Q.5** Describe in detail obtaining aniline black colour on cotton with all possible methods. **14**
- OR**
- Q.5** Describe with all technical details the dyeing of pigment colours on cellulosic fabric. **14**

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