

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2152802**Date: 17/12/2015****Subject Name: Technology of Dyeing-I****Time: 10:30am to 1:00pm****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) Describe different phases of typical Indigo dyeing plant. **07**
(b) Explain Mixture shade on denim with Indigo +Hydron combination. **07**
- Q.2** (a) Explain principle behind aftertreatment of direct dyed cotton. Describe one such industrially popular method. **07**
(b) Write a note on Basic Dyes and their application. **07**
- OR**
- (b) Explain the chemistry and technique to produce mineral colors on fibrous material. **07**
- Q.3** (a) Give properties and applications of Sulphur dyes. Explain Sulphur Black tendering. **07**
(b) Give various reasons for Sulphur Bronziness. Discuss its correction methods. **07**
- OR**
- Q.3** (a) Explain chemistry of Chlorotriazine dyes. **07**
(b) Write a note on important Reactive systems of Reactive dyes. **07**
- Q.4** Explain application of Azoic colour through different stages. Cite all the problems, precautions and solutions at each stage. **14**
- OR**
- Q.4** Describe in detail all the available methods for application of Vat dyes. Compare and Contrast all these methods. **14**
- Q.5** (a) Differentiate between Vat dyes and Solubilized Vat dyes. Describe the process for application of solubilized vat dyes on cotton. **07**
(b) Discuss merits and demerits of Aniline Black colour. Give any one method to produce aniline black on cotton fabric. **07**
- OR**
- Q.5** (a) Write a note on coloration of Cotton by pigment colours. **07**
(b) Write a note on Remazol Dyes. **07**
