

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017****Subject Code: 152802****Date: 05/05/2017****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) Enlist all the After treatments given to Cotton fabric. Describe any one method from it. **07**
- (b) Give some important properties and uses of Direct dyes. Discuss dyeing Of Cotton by this dye. **07**
- Q.2** (a) Discuss some technical parameters of Denim dyeing by Indigo dye. **07**
- (b) Enlist some faults and their correction methods of Denim dyeing. **07**
- OR**
- (b) Describe in detail Rope dyeing method of Denim dyeing. State its advantages and limitations. **07**
- Q.3** (a) Discuss different methods of Naphthol dissolution with their advantages and drawbacks. **07**
- (b) Describe method of stripping of Azoic colour from Cotton. **07**
- OR**
- Q.3** (a) Discuss Continuous and Semi continuous method of dyeing Procion colours on Cotton. **07**
- (b) Write a note on Bifunctional Reactive dyes. **07**
- Q.4** (a) What are Oxidation Colours? Describe method of application of one such colour on Cotton. **07**
- (b) Discuss Pigment dyeing of cotton with any copper thalocyanine pigment. **07**
- OR**
- Q.4** (a) Give properties and application method of dyeing Sulphur dye on Cellulosic fibre. **07**
- (b) Enlist defects of sulphur dyes and explain their causes and remedial measures. **07**
- Q.5** (a) Give classification of Vat dyes based on their application methods. **07**
- (b) Describe Pigment Padding process for dyeing vat dye on Cotton. **07**
- OR**
- Q.5** Discuss all the possible methods of dyeing Solubilised Vat dye on Cellulosic fibre. **14**
