

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-V • EXAMINATION – SUMMER 2014

Subject Code: 152802

Date: 13-06-2014

Subject Name: Technology of dyeing-1

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 Short : **14**
01. Where Direct dye is widely used.
 02. Why Chrysophenine dye cotton deeply but Direct sky blue FF only stains cellulose without the addition of salt.
 03. What is the function of Mordant in application of Basic dye on Cotton?
 04. What are Monofunctional and Bifunctional Reactive Dyes?
 05. What are Remazol dyes?
 06. Generally _____ moles of acid is taken for Diazotization of base.
 07. State the function of Sodium acetate during diazotization.
 08. Name the two major classes of Vat dye.
 09. Give some trade names of Solubilesed vat dyes.
 10. Which shades are popular in Sulphur dyes?
 11. By which two combinations of Inorganic salts, Mineral Khaki shade is produced. Where Aniline Black colour is largely used.
 12. What is meant by Ring dyeing in Denim.
 13. _____ & _____ production techniques are used in Denim Dyeing.
- Q.2** (a) Describe Rope Dyeing method of dyeing Indigo blue on Denim. **07**
(b) Compare & Contrast this method with the other available method. **07**
- OR**
- (b) Explain how mixed shades are obtained in Denim with Sulphur+Indigo combinations. **07**
- Q.3** (a) Enlist various After treatments and explain any one such popular method, given to direct dyed Cotton fabric. **07**
(b) Enumerate different parameters of direct dye dyeing and explain any two of them. **07**
- OR**
- Q.3** (a) Describe Napthol dissolution methods. **07**
(b) Explain Diazotization of Primary amines with all technical precautions. **07**
- Q.4** (a) Discuss Chemistry of MCT & DCT Reactive Dyes. **07**
(b) Give application methods of these dyes on Cotton. **07**
- OR**
- Q.4** (a) Explain Principles of Vat Dye application on Cotton. **07**
(b) Give Stripping process for removal of this dye from the fabric. **07**
- Q.5** (a) Write notes on Pigment Dyeing. **07**
(b) Explain Aniline Black. **07**
- OR**
- Q.5** (a) Discuss Defects of Sulphur Dyes. **07**
(b) Explain Solubilesed Vat Dyes. **07**