

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION – WINTER • 2014

Subject Code: 172802

Date: 02-12-2014

Subject Name: Computer Aided Designing and Computer Color Matching

Time: 10:30 am - 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** (a) Describe: Output devices, scanners and scanning process. **09**
(b) Write a note on dual beam Spectrophotometer. **05**
- Q.2** (a) Justify the position of digital printing while discussing its merits and demerits. **07**
(b) Explain the terms Motif development and Repeat Matching. **07**
- OR**
- (b) Discuss the technical aspects of various viewing geometries in CCMS. **07**
- Q.3** (a) Explain the process of standardization of illuminant for CCMS with the help of necessary plots. **09**
(b) Discuss about selection tools and editing tools used in texprint. **05**
- OR**
- Q.3** (a) Discuss the merits and demerits of CIE chromaticity diagram with proper sketch. **07**
(b) Elaborately discuss the need for objective quantification of color difference in context to its subjective assessment. **07**
- Q.4** (a) Discuss the mathematical steps involved in process of match prediction done by CCMS software. **07**
(b) Discuss technical aspects involved in determination of relative strength of dyes with the help CCMS. **07**
- OR**
- Q.4** (a) Show Hue circle and discuss about its significance and practical use. **07**
(b) Explain the use of color difference measurement for assigning fastness rating using CCMS. **07**
- Q.5** (a) Give note on Database and Batch correction in CCM. **07**
(b) Show the diagrammatic representation of 555 Shade Sorting” program and explain with example. **07**
- OR**
- Q.5** (a) Discuss with the help of sketch, symmetric and asymmetric tolerance. **07**
(b) What is “Metamerism”? Discuss in detail the various types of metamerism and its significance in textile industries. **07**
