GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER 2013

Subject Code: 172802Date: 05-12-2013Subject Name: Computer Aided Designing and Computer Color Matching
Time: 10:30 TO 01:00Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) Discuss the process of preparation of database for CCMS? Give the 07 significance of the same and also give the factors to be considered while preparing it?

(b) Describe the main features of Digital Flat bed Printer. 07

- Q.2 (a) Discuss the input and output devices used in CAD system used for 07 Textile Designs.
 - (b) Describe the process of developing and constructing printed designs 07 using any CAD software.

OR

- (b) Explain briefly the steps for developing a jacquard design using CAD 07 software.
- Q.3 (a) Explain how "Black body radiation" concept is used in standardization 07 of illuminant.
 - (b) With the help of sketch, describe the principle of working of 07 spectrophotometer used in CCMS.

OR

- Q.3 (a) Give the significance of PASS-FAIL programme. Also describe the 07 same and give its diagrammatic representation.
 - (b) Write a brief note on "555 Shade Sorting programme". 07
- Q.4 (a) Explain how color difference measurement is used for assigning 07 fastness rating using CCMS.
 - (b) Discuss the advantages and disadvantages of CCM techniques.0707
- Q.4 (a) Discuss the advantages and disadvantages of CIE trichromaticity 07 diagram.
- Q.4 (b) Explain the process of standardization of an object. 07
- Q.5 (a) Discuss the CIE system of colour specifications. 07
 - (b) Give only the mathematical steps involved in "Formulation" done by **07** CCMS software.

OR

Q.5 (a) Describe how the assessment of whiteness and yellowness is done.
(b) Describe any one method for strength analysis of a colour.
07
