Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - SUMMER • 2015

Subj	ect N e: 02	ode: 172802 Name: Computer Aided Designing and Computer (.30pm-05.00pm	Date: 08/05/2015 Color Matching Total Marks: 70
111811	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Answer the following short questions. i) Name the two repeat matching tools. ii) What is DPI? iii) Jacqweave is used to develop printed designs, true or false? iv) How many colors are supported by 4 bit mode? v) Name any two viewing tools. vi) Name any two editing tools. vii) Give the meaning of term float checking. Discuss the steps needed for creating dobby designs using CAD software.	07
Q.2	(a)	Enlist various input and output devices. Discuss in detail	07
	(b)	the output devices used in CAD. Describe the steps involved in constructing and developing printed design using any CAD software. OR	07
	(b)	Name a few of commercial brands of computer Colour matching systems. Enlist the types of spectrophotometers. Discuss the technical aspects of an integrating sphere.	07
Q.3	(a)	Discuss the concept of color temperature and explain how has been used in color quantification.	07
	(b)	Justify the need for objective assessment of a color and color difference in field of textiles. OR	07
Q.3	(a)	Answer the following short questions. i) What is meant by D-65? ii) Define a 2 degree CIE observer. iii) Mercury vapor lamp is richer in UV, true or false? iv) % reflectance changes linearly with concentration of dyes on fabric, true or false? v) Give the formula for K/S. vi) Which viewing geometry is used most in today's spectrophotometers? vii) What is the use of gloss trap in spectrophotometer?	07
	(b)	Explain the SPD curves of various illuminants.	07
Q.4	(a)	Give only the steps involved in formulation done by	07

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(b) Give sketches of CIE chromaticity locus and hue circle. **07** Explain their significance too.

OR

- Q.4 (a) Explain the application of color difference measurement in or assigning fastness ratings.
- Q.4 (b) Discuss the concept of pass fail system and how it is 07 useful in textile trade.
- Q.5 (a) Write a note on Database and batch correction. 07
 - (b) Discuss the significance of shade sorting and explain the practical applicability of 555 shade sorting program.

OR

- Q.5 (a) Describe in detail any one method for strength analysis of 07 color.
 - (b) Elaborately discuss the term Metamerism and metameric 07 index with their significance in textile processing sector.
