Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII • EXAMINATION – WINTER 2013

Subject Code: 172802 **Date: 05-12-2013**

Subject Name: Computer Aided Designing and Computer Color Matching

Time: 10:30 TO 01:00 **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)**	Discuss the process of preparation of database for CCMS? Give the significance of the same and also give the factors to be considered while preparing it?	**07**
	(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 Textile Designs.	**07**
	(b)	Describe the process of developing and constructing printed designs using any CAD software.	**07**
		OR	
	(b)	Explain briefly the steps for developing a jacquard design using CAD software.	**07**
Q.3	**(a)**	Explain how "Black body radiation" concept is used in standardization of illuminant.	**07**
	(b)	With the help of sketch, describe the principle of working of spectrophotometer used in CCMS.	**07**
		OR	
Q.3	**(a)**	Give the significance of PASS-FAIL programme. Also describe the same and give its diagrammatic representation.	**07**
	(b)	Write a brief note on "555 Shade Sorting programme".	**07**
Q.4	**(a)**	Explain how color difference measurement is used for assigning fastness rating using CCMS.	**07**
	(b)	Discuss the advantages and disadvantages of CCM techniques.	**07**
		OR	
Q.4	**(a)**	Discuss the advantages and disadvantages of CIE trichromaticity diagram.	**07**
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 CCMS software.	**07**
		OR	
Q.5	**(a)**	Describe how the assessment of whiteness and yellowness is done.	**07**
	(b)	Describe any one method for strength analysis of a colour.	**07**

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