



SE-7481

B. E. IV (Sem - VII) (TP) Examination

May / June - 2011

Computer Aided Designing and
Computer Color Matching

Time : 3 Hours]

[Total Marks : 100

Instruction :

नीचे दृश्यावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य बपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. IV (Sem - VII) (TP)

Name of the Subject :
Computer Aided Designing & Computer Color Matching

Subject Code No. : 7 4 8 1 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

- 1 (a) Answer the following objective question : 10
- (1) Name any two selecting tools.
 - (2) What is repeat matching ?
 - (3) Jacquard is used to develop woven designs, true or false?
 - (4) A file having. tiff extension supports a graphic file, true or false ?
 - (5) The smallest twill repeats on 3x3, true or false ?
 - (6) Name the two input devices.
 - (7) How many colors are facilitated by creating a file in 8 bit mode ?
 - (8) CMYK means _____ .
 - (9) DPI means _____ .
 - (10) Texprint is used for _____ .
- (b) Describe the main features of any two softwares available to develop printed designs. 10
- 2 What is meant by tristimulus values ? Describe the process how the tristimulus values are derived ? 15
- OR
- 2 Explain whole process for arriving at match recipe or formulation performed by software. 15

- 3** Write short notes : (any **three**) **15**
- (a) Digital printing
 - (b) Color reduction and separation
 - (c) Selection tools and editing tools used in jcadraw
 - (d) Need for objective quantification of color
- 4** (a) Answer the following objective question : **10**
- (1) Reflectance changes linearly with concentration of dye on fabric, true or false ?
 - (2) What is PXA lamp ?
 - (3) How chroma is mathematically related with 'a' and 'b' ?
 - (4) $DE = \underline{\hspace{2cm}}$
 - (5) Which compound is used for coating of integrating sphere ?
 - (6) Which hue occupies first and second quadrant of hue circle ?
 - (7) For military fabrics, acceptability and perceptibility are same, true or false ?
 - (8) What does the trichromatic coordinates indicate ?
 - (9) $K/S = \underline{\hspace{2cm}}$.
 - (10) Degree of saturation is expressed in terms of dominant wavelength, true or false ?
- (b) Explain the use of Kubelka - Munk equations in calculating relative dye strength. **10**
- 5** Discuss the concept of acceptability and perceptibility and its significance in objective shade assessment. Describe various systems developed for color difference measurement. **15**
- OR**
- 5** Discuss the concept of pass-fail and shade sorting. Explain their practical use in industries. **15**
- 6** Write short notes on any **three** : **15**
- (a) CIE standard illuminant
 - (b) Metamerism
 - (c) Optics in dual beam spectrophotometer
 - (d) Hue circle