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B.E / B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

PRINTING TECHNOLOGY

VI Semester

PT501/PT9026 Colour Management

(Regulation 2004/2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

**Part – A (10 x 2 = 20 Mark)**

1. List the standard light sources used in colour viewing and matching.
2. Define hue, saturation and value.
3. What is a profile?
4. What are the steps in standardizing a press?
5. Which test targets are used for creating a scanner profile?
6. How does fluorescence affect profile quality?
7. Which rendering intent will you chose for proofing? Justify.
8. What is gamut compression?
9. How will you calibrate the monitor and prepare files for internet workflow?
10. What is profile embedding?

**Part – B (5 x 16 = 80 Mark)**

11. i) Explain in detail about CIE Lab colour space. (6)  
ii) Describe in detail about the working principle of colorimeter with diagram.(10)
12. a. Explain the need for colour management and the ICC specified colour management workflow?  
(or)  
b. Discuss in detail about closed loop and open loop colour control.
13. a. Explain in detail about the steps involved in creating a profile for monitors  
(or)  
b. Discuss in detail about creating profile for an offset press.
14. a. Explain in detail about the types of rendering intents and its application with suitable example.  
(or)  
b. i) What are the functions of a Colour Matching module? Explain its working principle.  
ii) Discuss in detail about Colour appearance models.
15. a. Explain in detail about any four colour management workflows and also discuss about how colours are converted to destination colour space in each workflow.  
(or)  
b. Explain about the colour management features in Photoshop.