

52

B.E./B.Tech. (Full time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011
PRINTING TECHNOLOGY BRANCH
SEVENTH SEMESTER – (REGULATIONS 2008)
PT9026 – COLOUR MANAGEMENT

Time : 3 hrs

Max Mark:100

ANSWER ALL QUESTIONS

Part – A (10 x 2 = 20 Mark)

1. Draw CIE 0/45 and D/8 geometries for spectrophotometer.
2. Compare between CIELab and Munsell colour spaces.
3. Define the Profile Connection Space for Perceptual Rendering Intent.
4. What are the sources of colour variation in a monitor?
5. What are the elements in a profiling test chart for digital camera?
6. Write the merits and demerits of Lookup Tables in a profile?
7. How will colour appearance modelling improve CMS?
8. Which rendering intent will you use for taking a digital proof of an offset press? Justify.
9. How will you calibrate the monitor and prepare files for internet workflow?
10. What are the disadvantages in using RGB workflow?

Part – B (5 x 16 = 80 Mark)

11. i) Compare between closed loop and open loop colour control (6)
ii) Explain in detail about the variations in device characteristics and the need for colour management. (10)
12. a. i) Describe in detail about the working principle of colorimeter with diagram.
ii) Explain about the properties of light source that affect colour perception.
(or)
b. Discuss in detail about any three colour spaces with neat sketch.
13. a. i) How will you create a monitor profile? Explain the steps in detail.
ii) Discuss in detail about the fluorescence effect in printer profiling.
(or)
b. Discuss in detail about calibration and creating profile for inkjet printers.
14. a. Explain in detail about the types of rendering intents and its application with suitable example.
(or)
b. Write short notes on i) Colour Matching module ii) 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. i) Discuss in detail about the intermediate workspace and its types.
ii) Explain about the colour management features in proof setup and printing menu in Photoshop.