

B.E./B.Tech. (Full time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2012

PRINTING TECHNOLOGY BRANCH

EIGHTH SEMESTER – (REGULATIONS 2008)

PT9026 – COLOUR MANAGEMENT

Time : 3 hrs

Max Mark:100

ANSWER ALL QUESTIONS

Part – A (10 x 2 = 20 Mark)

1. Differentiate between spectrophotometer and colorimeter.
2. What are the attributes of colour?
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 tags in header of profile?
6. Write the merits and demerits of Lookup Tables in a profile?
7. How will the paper properties affect the gamut?
8. Compare the gamut of inkjet printer and uncoated offset process.
9. What is a soft proof?
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. Describe in detail about the working principle of spectrophotometer with diagram.
(or)
b. Discuss in detail about any three colour spaces with neat sketch.
13. a. Discuss about the test targets and limitations in digital camera profiling. Also explain the calibration and profile creation process of digital camera in detail.
(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. Explain about the colour management features in Photoshop.