B.E./B.Tech. (Full time) DEGREE END SEMESTER EXAMINATIONS, APR/MAY 2012

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. 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. Explain A2B0 and B2A0 tags in a profile.

6. How does fluorescence affect profile quality?

7. Draw the gamut boundaries for a monitor, inkjet machine and offset press.

8. What is gamut compression?

9. How will you calibrate the monitor and prepare files for internet workflow?

10. What are the disadvantages of assumed workflow?

Part – B (5 x 16 = 80 Mark)

11. Explain the components of spectrophotometer with neat diagram.

12. a. What is the need for colour management? How is colour management achieved by ICC specified 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 scanners. Also discuss about the types of test targets for scanner profiling.

(or)

b. Discuss in detail about creating profile for an offset press. How will you determine its quality.

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. Write short notes on i) Soft proofing ii) RGB and CMYK workflows iii) Embedded workflow iv) sRGB colourspace.

(or)

b. Explain about the colour management features in Photoshop.