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

PRINTING TECHNOLOGY BRANCH

EIGHTH SEMESTER – (REGULATIONS 2004)

PT501 – COLOUR MANAGEMENT

Time : 3 hrs Max Mark:100

ANSWER ALL QUESTIONS

Part – A (10 x 2 = 20 Mark)

1. What are the three steps to colour management?
2. State the role of ICC in colour management.
3. Write the equation to calculate the tristimulus values.
4. How do the surface properties of the substrate affect colour perception?
5. What are the types of instrument calibration?
6. Differentiate between spectrophotometer and colorimeter.
7. List any four test targets used for scanner profiling.
8. How does fluorescence affects the quality of printer profile?
9. Define profile embedding and profile assigning.
10. Draw the colour conversions involved in soft proofing.

Part – B (5 x 16 = 80 Mark)

11. Explain in detail about the types of rendering intent and its application with suitable example.

12. a. Write short notes on i)Standard observer ii)Attributes of colour iii)Light and colour

(or)

b. With neat diagram discuss about CIExyY and CIELAB colour spaces.

13. a. Explain the working principle of densitometer with neat sketch.

(or)

b. What are the different components of Spectrophotometer? Explain in detail.

14. a. How will you create a monitor profile? Explain the steps.

(or)

b. What is the need for assessing the quality of a profile? Describe the method to assess the quality of printer profile?

15. a. Explain in detail about the colour management policies of Photoshop.

(or)

b. Discuss in detail about colour management in various print production workflows.