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**B.E / B.Tech ( Full Time ) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2013**

**PRINTING TECHNOLOGY**

**IV Semester**

**PT 9253 Colour Reproduction**

**(Regulation 2008)**

10

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

**Part – A (10 x 2 = 20 Mark)**

1. State the subtractive colour theory.
2. Compare between CIELAB and Munsell colour space.
3. What are moiré patterns?
4. Draw the Bayer pattern of filters used in digital cameras.
5. How does light sources influence colour perception?
6. State the significance of gray balance.
7. List the causes for additivity failure.
8. Differentiate between UCR and GCR.
9. What are the objectives of proofing?
10. Which rendering intent is used for business graphics? Justify.

**Part – B (5 x 16 = 80 Mark)**

11. Explain in detail about the principle of spectrophotometer with neat diagram.
12. a. Discuss in detail about the various types of colour reproduction objectives.  
(or)  
b. What are the devices used in image acquisition? Explain in detail about them.
13. a. Explain in detail about tone reproduction with the help of Jones diagram.  
(or)  
b. Discuss in detail about steps in positive masking and its need.
14. a. Explain in detail about the optics of ink film with diagram.  
(or)  
b. What is proportionality failure? Discuss in detail about its causes.
15. a. Describe in detail about the steps in colour management.  
(or)  
b. Explain in detail about closed loop and open loop colour management.