Roll No.								10

B.E. (Full-Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2012

PRINTING TECHNOLOGY BRANCH

III SEMESTER - (REGULATIONS 2004)

PT 272 IMAGING TECHNOLOGY

Time: 3 hr Max. Mark: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Mark)

1. Explain with example type family and type series.
2. What is meant by house style?
3. What is "x"-height and type measurement system?
4. Explain the light sources used in second generation typesetters.
5. What are the elements of CRT? Draw a neat sketch.
6. What is text wrap option in pagemaker software?
7. Explain the principle AO modulator.
8. What are the different types of originals?
9. What is contact photography?
10. Draw the film structure and name it.

Part –B (5 x 16 = 80 Mark)

11. A manuscript contains 7,85,645 words. A book is to be set with font size of 14 points with 2 points line spacing for a line length 42 picas and a page depth of 68 picas. Find the total number of pages.

    If the font size is changed 12/13 points find the number of pages.

12. (a) Explain the meaning of 16 proof readers' marks giving their textual and marginal marks.

    (or)

    (b). Explain in detail with necessary diagram the different methods of character store, character selection and character exposure in the second generation phototypesetters.

13. (a) Explain the principle of laser. List four laser sources and compare them.

    (or)

    (b) Explain the schematic diagram of the optical system of a laser typesetter and explain the functions of each component.

14. (a) What are the different types of process camera and explain them in detail.

    (or)

    (b) Explain in detail the various lens aberrations.

15. (a) Explain the theory and steps involved in halftone reproduction.

    (or)

    (b) What is density? Explain all variants in film development.