

23/11/15

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**B.E (Full-Time) DEGREE END SEMESTER EXAMINATION, NOV / DEC 2013**  
**PRINTING TECHNOLOGY BRANCH**  
**III SEMESTER – (REGULATIONS 2012)**

**PT8301 – IMAGING TECHNOLOGY**

**Duration: 3 hours**

**Max. Marks: 100**

Answer ALL Questions

**PART A**

(10 X 2 = 20 marks)

1. Explain the type measurement.
2. What is Copy mark-up?
3. Explain the principle AO modulator.
4. Explain the principle of PMT.
5. Mention different types of films.
6. What is a virtual drum?
7. Mention the various print finishing marks.
8. What is work and turn?
9. List the different light sources used in plate making.
10. What are different metals used in plate making.

**PART B**

(5 X 16 = 80 marks)

11. Draw the schematic diagram of the optical system of a laser typesetter and explain the functions of each component.
12. (a) A manuscript contain 7,83,529 words. This is to be set with font size of 13 points with 2 point line spacing for a line length of 35picas and page depth of 65 picas. Find the total number of pages. Find the number of pages if the point size is changed to 12/13points.  

(or)

(b) Explain the meaning of 16 proof reader's marks giving their textual and marginal marks.
13. (a) Explain the working of a flat-bed scanner with schematic diagram.  

(or)

(b) Explain in detail the various lens aberrations
14. (a) Write the procedure and draw the imposition for 12page and 32 page sections.  

(or)

(b) Explain any two calculations for finding the book work margins . Assume the paper size.
15. (a) Explain the computer to plate workflow in a printing industry.  

(or)

(b) Explain any one of the platesetter with schematic diagram and list the advantages of the platesetter.