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**B.E. (Full Time) DEGREE END SEMESTER EXAMINATIONS, Oct. 2012**

**PRINTING TECHNOLOGY BRANCH**

**IV SEMESTER**

**PT 9251 Sheet Fed Offset Technology**

**(REGULATIONS 2008)**

Time 3 Hrs.

Max.Marks:100

Answer All Questions

**Part A**

**10x2=20 Marks**

1. Name the persons credited with the invention of Offset and Lithography.
  2. What are the ways in which you can prevent the oxidation of aluminium plate?
  3. Name five sheet control devices used in a sheet feeder.
  4. Why anti set off spray devices are used?
  5. How would you prepare the sheet for trouble free printing?
  6. Name four different types of printing problems with their solution.
  7. What is emulsification?
  8. How would you increase the print length?
  9. Name the detectors in an offset machine?
  10. What is meant by trip mechanism?
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11. Explain the chemical and physical principles involved in the successful working of Lithographic printing process.
  12. a.Explain the fluid behavior in a nip with reference to Ink and water.  
Or  
b.Explain the working principle of a suction head with a neat diagram.
  13. a.Explain the metal printing process in detail.  
Or  
b.Diagrammatically explain different types of cylinder configurations of a multi colour machine.
  14. a.Describe the working principle of any two types of sheet insertion systems available.  
Or  
b.Describe the working principle of sheet reversal system for perfect printing.
  15. a.Explain the working principle of a direct imaging printing system.  
Or  
b.I.What parameters are to be monitored in a fountain solution?  
II.How are they monitored?