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**B.E./B.Tech. (Full Time) DEGREE SEMESTER EXAMINATIONS, Nov/Dec 2012**

**PRINTING TECHNOLOGY BRANCH**

**FIFTH SEMESTER – (REGULATIONS 2008)**

**PT9305- Web Offset Technology**

Time : 3 hrs

Max Mark:100

**ANSWER ALL QUESTIONS**

**Part – A (10 x 2 = 20 Mark)**

1. What is the purpose of web pre-conditioner?
2. What is the diameter of a 50% dot in 150 lpi.
3. Define fanout.
4. What is meant by cylindricity error?
5. How ink drying prevented in the duct?
6. How radial run out would affect inking roller?
7. Why heat set inks are preferred for glazed papers?
8. What is the function of RTF?
9. Name different types of dryers?
10. Why silicone coating devices are employed?

**Part – B (5 x 16 = 80 Mark)**

11. Explain the various operations involved in the mail room section of a news paper organization.
12. a.Explain the principle of operation of a zero speed paster.  
Or  
b.Explain the principle of operation of a flying paster.
13. a.How a multi colour registration is enabled automatically in a web fed press.  
Or  
b.Explain the various concepts involved in moving the print circumferentially and laterally.
14. a.Explain the working principle of an ink pumping and distribution system.  
Or  
b.What parameters are to be controlled in a dampening system? Explain.
15. a.Explain the working principle of a combination folder in web offset machine.  
Or  
b.Explain a closed loop tension control system.