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**Bachelor of Engineering**  
**Printing Technology VII Semester Apr.2012**  
**PT 481 Printing Machinery Maintenance**

Time 3 Hrs.

Max.Marks:100

Answer All Questions

**Part A**

10x2=20 Marks

- 1.What is the need for maintenance in a printing industry?
- 2.Define preventive maintenance.
- 3.What is meant by OEE?
- 4.Name a few solid type lubricants and their applications.
- 5.What is the need for a test form while commissioning a printing machine?
- 6.How eccentric bushes are used in a printing machine? What is to be checked in eccentrics?
- 7.Enumerate the factors to be considered while purchasing new equipment?
- 8.What is the reorder point for a ball bearing used in ink rollers, that requires 4 weeks time to procure with an annual demand of 26 numbers.
- 9.Enumerate six big equipment losses.
- 10.Draw the failure rate curves for a typical electronic, mechanical components.

**Part B**

5x16=80 Marks

11.a.A company has invested Rs.80, 00,000 in equipment and Rs.40, 00,000 in facilities. Find out the cost of maintenance per annum and also the cost of maintenance labour with the number of people required. ---8

b.Illustrate various forms used in a production center for effective maintenance and discuss their utility in a hypothetical situation.---8

12.a.What are the objectives of maintenance? Explain as to how you will attain those objectives.

**Or**

b.What are the functions of maintenance? Explain.

13. a. I. Explain four non destructive testing methods and instruments.

**Or**

b. I. Explain different types of foundation and their relative importance.

14.a.Discuss the factors that could affect the categorization of machines and their weightages? Illustrate a sample plan for categorization of equipment with example.

**Or**

b.Explain different types of foundation and their relative importance.

15.a.Explain the functions of lubricants. Enumerate the important characteristics and tests for lubricants.

**Or**

b.Write in detail about the total prepress maintenance.