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**Question Paper Code : 91824**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Seventh/Eighth Semester

Mechanical Engineering

ME 6012 : MAINTENANCE ENGINEERING

(Common to Mechanical Engineering/Mechanical and Automation Engineering/  
Production Engineering)

(Regulations 2013)

Also Common to : PTME 6012 – Maintenance Engineering for B.E. (Part-Time) –  
Seventh Semester – Mechanical Engineering

(Regulations – 2014)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What are the basic principles of Maintenance Engineering ?
2. How to improve the Reliability of a Machine which is used for a long time ?
3. What is known as preventive maintenance ?
4. Why lubrication is required ?
5. How condition monitoring is useful ?
6. What is known as Pistol Thermometers ?
7. Mention any two repair methods for slide ways.
8. What are known as Logical fault location methods ?
9. What for Equipment Records can be used ?
10. State the use of computers in Maintenance Engineering ?



## PART – B

(5×13=65 Marks)

11. a) Using the objectives and principles how to plan for maintenance activities ?  
(OR)  
b) Compare Maintenance Economics for different types of maintenance.
12. a) How Lubrication is associated with Maintenance engineering ?  
(OR)  
b) Write all about the principles and methods of lubrication.
13. a) How condition monitoring is related with overall expenditure for maintenance in an Industry ?  
(OR)  
b) How to reduce Cost of maintenance ?
14. a) Explain repair methods for spindles and gears ?  
(OR)  
b) Write in detail about fault location methods.
15. a) Name the different types of material handling equipments and explain about their repair methods.  
(OR)  
b) What are known as Job Order Systems and how they are useful ?

## PART – C

(1×15=15 Marks)

16. a) How preventive maintenance engineering and condition monitoring are related ?  
(OR)  
b) Write about overall Successful coordination and management of various maintenance activities in an industry ?
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