

Code No: P18MEE01
HALL TICKET NUMBER

--	--	--	--	--	--	--	--	--	--



PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

III B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH/APRIL- 2023
MAINTENANCE ENGINEERING
(ME Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Define Maintenance Planning	[2M]	1	
	b) List out advantages of Preventive Maintenance.	[2M]	2	
	c) Define Organization Culture	[2M]	3	
	d) Define Scheduled Maintenance	[2M]	4	
	e) List the benefits of TPM.	[2M]	5	

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Describe various Maintenance actions	[5M]	1	2
	b) List the strategies of maintenance and explain its effect in detailed	[5M]	1	2
OR				
3.	a) Discuss in detail about system reliability.	[5M]	1	2
	b) Explain in detail Failure Rate Bathtub Curve.	[5M]	1	2
UNIT-II				
4.	a) Differentiate between FMEA and FMECA.	[5M]	2	2
	b) Explain various failure mechanisms.	[5M]	2	2
OR				
5.	a) Discuss about Time based and usage based Preventive Maintenance.	[5M]	2	2
	b) Explain in detail Preventive Maintenance Planning.	[5M]	2	2
UNIT-III				
6.	a) Discuss Computerized machine monitoring system and its mwrits.	[5M]	3	2
	b) Discuss how maintenance practiced on CNC Machines.	[5M]	3	2
OR				
7.	a) Enlist and explain the service procedures for maintaining automotive.	[10M]	3	2
UNIT-IV				
8.	a) Discuss about Maintenance Audit Methodology	[5M]	4	2
	b) List the objectives of material management	[5M]	4	1
OR				
9.	a) Explain the applications and functions of Computer aided maintenance management system (CMMS).	[10M]	4	2
UNIT-V				



10.	a)	Explain the characteristics of TPM	[5M]	5	2
	b)	Enlist and explain Indications of TPM	[5M]	5	2
OR					
11.	a)	Briefly explain the procedure of Total Productive Maintenance.	[5M]	5	2
	b)	Discuss in detail about TPM Development Activities	[5M]	5	2
