Or

- (b) What is design out maintenance? What are its problems? Explain.
- 20. (a) What is Reliability Centered Maintenance? Explain its process.

Or

(b) How does Computerised Maintenance Management System help in maintenance management? Explain.

SECTION C $-(3 \times 10 = 30)$

Answer any THREE questions.

- 21. Exhibit the various functions of maintenance management and organization for maintenance.
- 22. Analyse the concepts of failure time distributions and design for maintainability with examples.
- 23. Describe the maintenance, overhaul and repair policies with suitable illustrations.
- 24. Give a detailed note on condition-based maintenance and opportunity maintenance with examples.
- 25. Discuss the TPM philosophy and reengineering maintenance process.

S.No. 9029

P 22 MBA 3 E 05

(For candidates admitted from 2022-2023 onwards)

M.B.A. DEGREE EXAMINATION, NOVEMBER 2023.

Business Administration - Elective

MAINTENANCE MANAGEMENT

Time: Three hours Maximum: 75 marks

SECTION A — (20 marks)

Answer ALL the questions.

- I. (A) Multiple choice questions: $(5 \times 1 = 5)$
- 1. Scheduled maintenance is _____ between breakdown maintenance and the preventive maintenance.
 - (a) Joint

b) Compromise

(c) Bridge

- (d) In
- 2. A systematic approach for maintenance is
 - (a) Problem Cause Diagnosis Rectification
 - (b) Problem Diagnosis Cause Rectification
 - (c) Problem Measure Diagnosis Rectification
 - (d) Problem Diagnosis Measure Rectification

3.	Which of the following is not a loss that TPM focuses on reducing?	II.	An	swer ALL questions :	$(5\times2=10)$
	(a) Equipment breakdown	11.	Def	fine maintenance and its object	ctives.
	(b) Defects and rework	12.	Wh	at is MTTR?	
	(c) Idling and minor stoppages	13.	What is optimum overhaul?		
	(d) Optimized equipment cycle time	14.			
	(a) Optimized equipment cycle time	100 Hz 100 Hz			
4.	Measure of reliability is given by ———.	15.	15. Mention the meaning use of signature analysis.		
	(a) Mean Time between success			SECTION B — $(5 \times 5 =$	25)
	(b) Mean reliable		Answer ALL questions, choosing either (a) or (b).		
	(c) Mean Time between failure	imon of rinn quotions, encoding civilet (a) of (b).			
	(d) MTTR	16.	(a)	Discuss the maintenance examples.	strategies with
5.	What is the failure cost of a product possessing reliability $R = 1$?			Or	
	(a) Zero (b) Unity (c) Infinity (d) None of the above		(b)	What is five zero concepexample	ot. Explain with
	(B) Fill in the blanks: $(5 \times 1 = 5)$	17.	(a)	What are the survival curvuseful in failure data analy	
6.	maintenance policy is not used in the old age stage of a machine.		Or.		
7.	When the probability of failure reduces gradually, the failure mode is said to be		(b) Enumerate the process of maintainability prediction and availability for maintenance.		
8.	Number of breakdowns/Available machine hours =	18.	(a) Elucidate the problems and prospects of spare parts management.		
9.	In replacement analysis the maintenance cost is a function of ————.	Or			
10.	Reliability and failure intensity related to each other as ——— relationship.		(b)	What are the types of retheir advantages and disad-	
	2 S.No. 9029			3	S.No. 9029