

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE (AUTONOMOUS) III B.TECH I SEMESTER END REGULAR EXAMINATIONS, JAN/FEB - 2022 INDUSTRIAL ENGINEERING & MANAGEMENT (ME Damach)

Time: 3 hours

(ME Branch)

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B) <u>PART-A</u>

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

	[0] []		
1. a) Differentiate between production management and industrial engineering.	[2M]	1	2
b) List the merits and demerits of process layout.	[2M]	2	1
c) List any five therblings symbols	[2M]	3	1
d) State the concept of Zero defects.	[2M]	4	1
e) Define supply chain management	[2M]	5	1

<u>PART-B</u> Answer One Question from each UNIT (5X10=50M)

Q.No.		Questions	Marks	CO	KL
		UNIT-I			
2.	a)	Explain the contributions of Taylor for scientific management and how it leads to the concept of scientific management.	[5M]	1	2
	b)	Discuss the role of an industrial engineer	[5M]	1	2
		OR			
3.	a)	Discuss the Qualitative tools of Industrial Engineering.	[5M]	1	2
	b)	Describe the principles of scientific management in brief.	[5M]	1	2
		UNIT-II			
4.	a)	How plant location is important to Business profitability?	[5M]	2	1
	b)	[5M]	2	2	
		OR			
5.	a)	Explain briefly the quantitative techniques for optimal design of layouts. Explain the importance of preventive maintenance in production	[5M]	2	2
	b)	[5M]	2	2	
		management. UNIT-III			
6.	a)	Name the various recording techniques used in method study. Give the Various symbols used in recording techniques with their meaning.	[5M]	3	1
	b)	Discuss in detail about string diagram.	[5M]	3	2
		OR			
7.		Define Ergonomics and discuss its scope. Explain ergonomics design considerations in relation work.		3	2
	1	UNIT-IV			
8.	a)	Discuss in detail about SQC.	[5M]	4	2
	b)	Differentiate between control charts for attributes and control charts for variables.	[5M]	4	2
		OR			
9.	a)	Explain the objectives of ISO quality systems and discuss the major clauses in it.	[5M]	4	2
	b)	What are quality circles and explain the purpose of it.	[5M]	4	2
	-	UNIT-V			

Cod	e No:	P18MBO01]
10.	a)	Discuss in detail about Enterprise Resource Planning.						[5M]	5	2
	b)	Explain the objectives of Supply Chain Management.						[5M]	5	2
11.	OR 11. a) Differentiate between CPM and PERT							[3M]	5	2
	b)	For the given activities determine:1. Critical path using PERT.2. Calculate variance and standard deviation for each activity.						[7M]	5	3
			Activity	t _o	t _m	t _p				
			12	6	9	12				
			13	3	4	11				
			24	2	5	14				
			34	4	6	8				
			35	1	1.5	5				
			26	5	6	7				
			46	7	8	15				
			56	1	2	3				
