

Code No: P18MBO01

HALL TICKET NUMBER

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

III B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH/APRIL - 2023  
INDUSTRIAL ENGINEERING & MANAGEMENT  
(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) List the importance of management.	[2M]	1	1
	b) Differentiate between plant layout and product layout.	[2M]	2	2
	c) Define work sampling.	[2M]	3	1
	d) State the importance of Quality control.	[2M]	4	1
	e) Define Value Engineering	[2M]	5	1

**PART-B**

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

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Explain the system approach and contingency approach to management.	[5M]	1	2
	b) What is productivity? Enumerate the reasons for low productivity	[5M]	1	1
OR				
3.	a) Explain functions of management.	[5M]	1	2
	b) Describe the principles of scientific management in brief.	[5M]	1	2
UNIT-II				
4.	Define plant layout. Enumerate and explain various factors to be considered in design of plant layout.	[10M]	2	2
OR				
5.	a) Differentiate between Breakdown maintenance and Predictive maintenance.	[5M]	2	2
	b) Enlist the symptoms of bad layout.	[5M]	2	1
UNIT-III				
6.	Describe micro motion study. What are therbligs? When it is used? List therbligs symbols, colour description, name and code	[10M]	3	2
OR				
7.	a) State the differences between method study and work measurement with their objectives.	[5M]	3	2
	b) Explain the methodology of MTM.	[5M]	3	2
UNIT-IV				
8.	a) Explain the single and double sampling plans and their applications.	[5M]	4	2
	b) Describe the importance of Quality Control.	[5M]	4	2
OR				
9.	a) Discuss in detail about zero defect concept.	[5M]	4	2
	b) Explain the philosophy of TQM.	[5M]	4	2



UNIT-V								
10.	a)	What is personnel management? What are its features and functions?			[5M]	5	1	
	b)	Define HRM? Explain its elements and significance to organizational development.			[5M]	5	2	
OR								
11.	a)	What are the rules to be followed for drawing network diagram? Also mention the common errors that occur in drawing networks			[5M]	5	2	
	b)	A project has the following time schedule:			[5M]	5	3	
		<b>Activity</b>	<b>Time in months</b>	<b>Activity</b>	<b>Time in months</b>			
		1 – 2	2	4 – 6	3			
		1 – 3	2	5 – 8	1			
		1 – 4	1	6 – 9	5			
		2 – 5	4	7 – 8	4			
		3 – 6	8	8 – 9	3			
		3 – 7	5					
		Construct PERT network and compute						
		i. TL and TE for each event						
		ii. Float for each activity						
		iii. Critical path and its duration						

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