

Time: 3 hoursMax. Mark)
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
		UNIT-I	
1	a)	Define Industrial Engineering and explain its applications.	[7M]
	b)	What do you mean by scientific management? Explain its principles.	[7M]
2		Or Common and contract between inductrial or gineering and production management	[7]] /]
2	a)	Compare and contrast between industrial engineering and production management.	[7M]
	b)	Explain about Theory X and Theory Y.	[7M]
•	`	UNIT-II	
3	a)	What are factors affecting for selecting location? Explain in detail.	[7M]
	b)	Define plant layout and explain importance of layout decision.	[7M]
4	a)	Or Explain the principles of plant layout.	[7M]
7	a) b)	Discuss about pros and corns of process layouts.	[7M]
	0)	UNIT-III	[/1•1]
5	0)		[7]]
5	a)	How can work study and method study enable an organization to improve productivity?	[7M]
	b)	What are the steps required in making 'time study'? Explain.	[7M]
		Or	
6	a)	What is work sampling? Explain the procedure of work sampling.	[7M]
	b)	Explain the various techniques used in work measurement.	[7M]
		UNIT-IV	
7	a)	Define quality and explain various attributes of quality.	[7M]
	b)	What is statistical quality control? Explain with examples.	[7M]
		Or	
8	a)	Explain the concept and objectives of Total Quality management.	[7M]
	b)	Define six sigma and explain its concepts and uses.	[7M]
	,	UNIT-V	
9	a)	Compare and contrast between HRM and personal management.	[7M]
	b)	What is job evaluation? Explain the process of job evaluation.	[7M]
		Or	_
10	a)	Define wage incentive and explain different types wage incentives.	[7M]
	b)	What do you mean by supply chain management? Explain its components.	[7M]



Time: 3 hoursMax. Marks: 7			70
		Answer any FIVE Questions each Question from each unit	
		All Questions carry Equal Marks	
		UNIT-I	
1	a)	What are the different developments observed in ancient Industrial Engineering and	[7M]
	b)	modern Industrial Engineering? Explain about quantitative tools of industrial engineering.	[7M]
	- /	Or	L' J
2	a)	What are the different techniques used in Industrial Engineering for its development.	[7M]
	b)	Discuss about the Fayol's fourteen principles of management.	[7M]
		UNIT-II	
3	a)	Describe the concept of layout and different types of production layouts.	[7M]
	b)	Explain the different types preventive and break down maintenance.	[7M]
		Or	
4	a)	How to design and develop the optimal design of layout?	[7M]
	b)	What do you mean by plant maintenance? Explain effective maintenance methods.	[7M]
		UNIT-III	
5	a)	Define work measurement and its objectives.	[7M]
	b)	Explain the concept and process of micro-motion study.	[7M]
		Or	
6	a)	What do you mean by rating techniques? Explain its objectives and procedure.	[7M]
	b)	Discuss the various tools and techniques of work study.	[7M]
		UNIT-IV	
7	a)	Explain about Queing assurance and its importance.	[7M]
	b)	Illustrate different control charts.	[7M]
		Or	
8	a)	What is the importance and objectives of quality control in an industry?	[7M]
	b)	Explain the concept of SQC and how you can construct control charts for variables.	[7M]
		UNIT-V	
9	a)	Define HRM and explain the functions of HRM.	[7M]
	b)	What do you mean by job evaluation and explain its techniques?	[7M]
		Or	
10	a)	Discuss the concept and objectives of value engineering.	[7M]
	b)	Explain in brief about quantitative methods in Resource management.	[7M]



Tir	ne: (3 hours Max.	Marks: 70
		Answer any FIVE Questions each Question from each unit All Questions carry Equal Marks	
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1	a)	<b>UNIT-I</b> Explain the role of Industrial Engineering.	[7M]
	b)	Discuss about the productivity measurement techniques.	[7M]
		Or	E -
2	a)	Define management and explain the functions of management.	[7M]
	b)	What are the thumb rules of scientific management?	[7M]
		UNIT-II	
3	a)	What is plant layout? Explain the various principles of plant layout.	[7M]
	b)	How do you classify the different types of layouts? Explain in brief.	[7M]
		Or	
4	a)	Name and describe the various tools and techniques used in layout plannin	g. [7M]
	b)	Describe a product layout and explain its principles.	[7M]
		UNIT-III	
5	a)	Define work study. State its objectives and basic procedure.	[7M]
	b)	Explain about PMTS.	[7M]
		Or	
6	a)	Compare and contrast between work study and method study.	[7M]
	b)	Explain about "SIMO Charts" and state its applications.	[7M]
		UNIT-IV	
7	a)	What do you mean by SQC? What are its advantages and benefits?	[7M]
	b)	Discuss about attribute sampling and how will we inspect it.	[7M]
		Or	
3	a)	Explain about the zero defect concept with examples.	[7M]
	b)	Write about the concept and implementation of quality circles.	[7M]
		UNIT-V	
)	a)	Define merit rating and explain the uses and importance of merit rating.	[7M]
	b)	What do you mean by industrial relations? Explain its objectives.	[7M]
		Or	
0	a)	Discuss the different types of wage incentive plans.	[7M]
	b)	Explain the objectives and functions of supply chain management.	[7M]



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		Answer any <b>FIVE</b> Questions each Question from each unit	
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		UNIT-I	
1	a)	Explain the concept and importance functions of management.	[7M]
	b)	What do you mean by production management? Explain its components.	[7M]
		Or	
2		By considering an example, Explain Taylors principle in detail.	[14M]
		UNIT-II	
3	a)	What general considerations are made in preparing the layout of an industrial concern?	[7M]
	b)	Describe the process layout and explain its principles with examples.	[7M]
		Or	
4	a)	Discuss the various techniques for optimal design of layouts.	[7M]
	b)	Explain about the preventive and breakdown maintenance.	[7M]
		UNIT-III	
5	a)	What is need and objectives of production management?	[7M]
	b)	Discuss the different types and methods of method study.	[7M]
		Or	
6	a)	Explain about the string diagrams and Therbligs .	[7M]
	b)	What is flow chart? Discuss its utility for method study engineers.	[7M]
		UNIT-IV	
7	a)	Define Total quality management and explain how it will be implemented.	[7M]
	b)	Discuss about the rating techniques and its process of implementation.	[7M]
		Or	
8	a)	Define quality, quality management and discuss dimensions of quality.	[7M]
	b)	Write a note on ISO and benefits of ISO certification.	[7M]
	ŕ	UNIT-V	
9	a)	Explain the concept and functions of human resource management.	[7M]
	b)	Distinguish between job evaluation and merit rating.	[7M]
		Or	
10	a)	Discuss the step by step procedure of value engineering.	[7M]
	b)	What are the objectives and limitations of enterprise resource planning?	[7M]
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