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Code No: R1622036 (R16

SET - 1

II B. Tech II Semester Regular Examinations, April - 2018 INDUSTRIAL ENGINEERING AND MANAGEMENT

(Com to ME, AE, AME, MIN)

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer **ALL** the question in **Part-A**

3. Answer any **FOUR** Questions from **Part-B**

PART -A

1.	a)	What is industrial engineering?	(2M)				
	b)	Differentiate product and process layout.	(3M)				
	c)	What are the objectives of method study.	(2M)				
	d)	List out the steps involved in Inspection.	(3M)				
	e)	What is Human Resource Management?	(2M)				
	f)	Define ERP?	(2M)				
	PART -B						
2.	a)	What is meant by management? Explain Fayol's principles of management.	(7M)				
	b)	What is productivity? Discuss the methods to improve productivity.	(7M)				
3.	a)	Explain briefly the types of plant layout.	(7M)				
	b)	What is plant layout? Explain the principles and symptoms of a poor plant layout.	(7M)				
4.	a)	Explain in detail the advantages and procedure of work study	(7M)				
	b)	Establish a relation between work study and productivity.	(7M)				
5.	a)	Elucidate the concept of Quality control.	(7M)				
	b)	Explain various factors affecting TQM and its principles.	(7M)				
6.	a)	Describe the functions of Human Resource Management?	(7M)				
	b)	Define job evaluation. Explain job evaluation process and its advantages.	(7M)				
7.	a)	Define network. Write the rules for drawing network diagram with examples.	(7M)				
	b)	What are the difference between PERT and CPM?	(7M)				

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SET - 2

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Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B**

PART -A							
1.	a)	Write the functions of Management?					
	b)	What are the advantages of product layout?	(3M)				
	c)	Define method study and motion study	(2M)				
	d)	What is Quality circle?					
	e)	Define personnel management.	(2M)				
	f)	What is difference between Activity and Event?	(2M)				
		PART -B					
2.	a)	Explain the role of Industrial engineer in Manufacturing firms and service industries.	(7M)				
	b)						
3.	a)	List various factors that affect plant location. Compare methods of site selection in rural and urban areas.					
	b)						
4.	a)	What is therbligs? State the importance of micro motion study?	(7M)				
	b)	Define method study and list its objectives. Explain charts and diagrams used for recording data.					
5.	a)	What are the types of control charts? Explain them in detail	(7M)				
	b)	Explain Six Sigma.					
6.	a)	What are the different wage incentive plans? Explain with suitable examples.					
	b)	Elaborate the concept of industrial relation.					
7.	a)	Describe different phases in value engineering.					
	b)	The following table provides project cost and time details.	(7M)				
		Activity Normal time(days) Crash time(days) Normal cost(Rs) Crash cost					

Activity	Normal time(days)	Crash time(days)	Normal cost(Rs)	Crash cost
1-2	20	17	600	720
1-3	25	25	200	200
2-3	10	8	300	440
2-4	12	6	400	700
3-4	5	2	300	420
4-5	10	5	300	600

Draw the network diagram, find the floats, find the optimum duration and cost of the project



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Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B**

PART -A

a)	Define productivity.	(2M)
b)	What is plant location?	(3M)
c)	Write about Ergonomics.	(2M)
d)	Define Quality control.	(2M)
e)	What is merit rating?	(2M)
f)	-	(3M)
	PART -B	
a)	Explain the differences between production management and industrial engineering?	(7M)
b)	Explain the role of quantitative tools of IE and productivity measurement.	(7M)
a)	What do you mean by cellular manufacturing layout? What are the components involved in it?	(7M)
b)	What are the methods used in the evaluation of Plant location?	(7M)
a)	Briefly discuss about PMTS and MTM.	(7M)
b)	Write a detail note on work sampling?	(7M)
a)	What are the dead with the district and the second	(7M)
u)		
b)	Define Total quality management. Explain the elements of TQM.	(7M)
a)	What do you understand by job evaluation? What are the principles of job evaluation?	(7M)
b)	Discuss the essentials of successful job evaluation system	(7M)
a)	Write a short note: i) Earliest time ii) Latest time iii) critical path iv) floats	(7M)
b)	What is supply chain management? What are the benefits of SCM?	(7M)
	b) c) d) e) f) a) b) a) b) a) b) a) b) a)	b) What is plant location? c) Write about Ergonomics. d) Define Quality control. e) What is merit rating? f) What are the three types of errors in drawing networks? PART -B a) Explain the differences between production management and industrial engineering? b) Explain the role of quantitative tools of IE and productivity measurement. a) What do you mean by cellular manufacturing layout? What are the components involved in it? b) What are the methods used in the evaluation of Plant location? a) Briefly discuss about PMTS and MTM. b) Write a detail note on work sampling? a) What are the elements involved in statistical quality control. b) Define Total quality management. Explain the elements of TQM. a) What do you understand by job evaluation? What are the principles of job evaluation? b) Discuss the essentials of successful job evaluation system a) Write a short note: i) Earliest time ii) Latest time iii) critical path iv) floats

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SET - 4

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Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer ALL the question in Part-A

3. Answer any **FOUR** Questions from **Part-B**

	PART -A							
1.	a)	Write about scientific	management.				(3M)	
	b)	What is plant layout?					(2M)	
	c)	-	tudy				(2M)	
	d)	Objectives of Times study.					(3M)	
		Explain the zero defect concept.				(2M)		
	e)	What are the objectives of HRM?						
	f)	What is cost slope?			(2M)			
			PA	<u>RT –B</u>				
2.	a)	Explain the important	ce and functions	of manageme	ent?		(7M)	
	b)	Explain the salient fe	Explain the salient features of Douglas Mc-Gregor's Theory X and Theory Y.			(7M)		
3.	a)	Explicate the layout based on Group Technology (GT) and Fixed position					(7M)	
	layout.						(71) (1)	
	b)	Elucidate preventive	and breakdown i	naintenance i	n piant iayout?		(7M)	
4.	a)	What are the steps involved in method study?				(7M)		
	b)	Discuss the Principles of Ergonomics.				(7M)		
5.	۵)					(7M)		
3.	a)	How the control proc	*	•			(7M)	
	b)	Write about the ISO certification? What is the procedure to register the ISO (7 certification?				(7M)		
6.	a)	Explain the point rating method and factor comparison method of job					(7M)	
٠.	ω,	evaluation.					(71.1)	
	b)	What are the advantage	ges of having HI	RM practices	in an organizatio	on?	(7M)	
7.	a)	Explain the overview and scope of ERP in business practices				(7M)		
	b)	• •			(7M)			
	,	Activity		Activity	Time(week)		` /	
		1-2	4	5-6	4			
		1-3	1	5-7	8			
		2-4	1	6-8	1			
		3-4	1	7-8	2			

4-9 5 9-10 7

(i) Construct a network (ii) Compute earliest occurrence time (E) and least occurrence time (L) for each event (iii) Find the critical path.

8-10