

Code No: **R41216 R10** 

Set No. 1

## IV B.Tech I Semester Supplementary Examinations, February/March - 2018 INDUSTRIAL ENGINEERING AND MANAGEMENT

(Open Elective)

Time: 3 hours Max. Marks: 75

## Answer any FIVE Questions All Questions carry equal marks

				A	ll Qu	estio		arry (	equa	l ma	rks				
1	a)	Give the essence of Industrial Engineering and explain its role in identifying and solving different types of problems faced by industries.												[8]	
	b)	What are the differences between production management and industrial										[7]			
2	a)										ns.	[8]			
	b)	Explain various quantitative techniques used in optimal design of plant layouts.												[7]	
3	a) b)	, ,												[8]	
	- /	ii). W	That do you befine Ergor	und	erstar			•							[7]
4	a) Construct X and R charts from the following information and state whether the process is in control. For each of the following X has been computed from a sample of 5 units drawn at an interval of half an hour from an ongoing manufacturing process.														
			Sample	i	2	3	4	5	6	7	8	9	10		
			X R	20 23	34 39	45 14	39 5	26 20	29 17	13 21	34 11	37 40	-23		
b) Write a short notes on the following i). Sampling risks ii). Process Control									[8]						
		,	onfidence l		3										[7]
<ul><li>5 a) Differentiate personnel and industrial relations from HRM.</li><li>b) i) How does job rotation promote employee motivation and satisfaction?</li></ul>									sfaction?	[8]					
	0)	ii) Define HRD. Why is it necessary?											[7]		
6	a) b)		lo you mear n in detail a	•				-		l how	it is	achie	eved	1?	[8] [7]
	0)	LAPIAI	ii iii detaii a	wu	100	quan	ity sy	5 CIII	•						L'J

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Define valve engineering and give its procedure.	[8]
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- b) Explain in detail about the concept and significant aspects of supply chain [7] management.
- 8 a) What are the differences between PERT and CPM? [8]
  - b) Write a short notes on the following
    - i). Time estimate in PERT
    - ii). Optimistic time estimate
    - iii). Average time estimate [7]

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