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Cod	de No: 117DV R13	3	
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERA	BAD	
	B. Tech IV Year I Semester Examinations, April/May - 2018	A person	
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	INDUSTRIAL MANAGEMENT (Mechanical Engineering)  Max. Mar	ks: 75	/
Not	e: This question paper contains two parts A and B. Part A is compulsory which c	earries 25	
	marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any	one full	
A AMON	question from each unit. Each question carries 10 marks and may have a, b, questions.	c as sub	
AG	AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	(25 Marks)	/
1.a)	State the two salient features of Herzberg's Two-Factor Theory of Motivation.	[2]	
b) c)	State the social responsibilities of management.  State the concept of organization chart.	[3]	
d)	State the features of boundary less organization.	[2] [3]	
(e)	State the factors to be considered for location of plant.	[2]	
$A \supset g$	State the steps involved in RPW method for line balancing problem	[3]( )	
/ (	What is allowance? What are the different types of allowances to be concestablishing standard time.		/
h)	What is meant by producer risk and consumer risk with respect to OC curves?	[2] [3]	
i)	State the advantages of job evaluation.	[2]	
j)	What is meant by crashing? How is it done?	[3]	
2.a) b)	Define leadership. What are the characteristics of leadership?  Discuss the contributions of Taylor to the theory of management. Explain regarded as the father of scientific management.	(50 Marks) why is he [5+5]	4
3.	Explain the McGregor's theory (V) and the many (V).		
A 7	Explain the McGregor's theory 'X' and theory 'Y'. How do these theor motivate the employees?	ies help to	
A(z)			
4.a)	Explain the method of departmentation by product. What are its advantages?		/
b)	What is meant by decentralization? What are its advantages?  OR	[5+5]	
5.a)	Explain the salient features of matrix organization. Explain its advar	itages and	
1.5	disadvantages.		
∧	What is boundaryless organization? Give its chart, advantages and disadvantages	s. [5+5]	Λ
<b>/─\</b>	Write the characteristics of the following methods of production	A = A = A = A	
	a) Job order b) Batch and c) Mass.	[10]	/
7	OR	[.~]	
7.	Explain features, advantages, limitations and suitability of following layouts: a) Product layout b) Process layout c) Fixed position layout.	[10]	
AG.	AG AG AG AG AG	AG	/



a diesel engine.

Casting no	1	2	3	4	5	6	7	8	9	10
Number of	15	11	25	10	12	20	15	10	17	13
defects (c)										

Construct a C-chart with 3 sigma limits and comment on the casting process.

b) Explain working principle of double sampling plan with a flow chart

[5+5]

List out various methods of job evaluation. Explain any two them in detail.

[10] 💛

11. The following represents a project that should be scheduled using PERT

		Immediate	Times(days)			
A /	Activity A	Predecessors A	Optimistic	Most likely	Pessimistic	A
$\triangle \langle    $	- /_		time 🔼 ( 🛶	time	time	$\perp \Delta$
/ / \	$\mathbf{A}$		10	22	28	$_{\rm I}$ / $_{\rm I}$
	В	A	4	4	10	
	С	A	4	6	14	
	D	В	1	2	3	
	Е	С	1	5	9	
_ A	F	C,D	7 ,	8 .	9 ,	A
	G	\E,F \( \lambda \) (	2 🛆 🚐	2 🛆	2 🛆 🦾	$-\Delta$
$Z = V \setminus \mathbb{Z}$	4 7					$/ \sim$

a) Draw the network

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b) What is critical path & the expected project completion time

c) What is the probability of completing this project within 35 days.

[10]

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