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Co	de No: 117DV R1	3	
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDER	ABAD	
A 25	B. Tech IV Year I Semester Examinations, April/May - 2018	a come.	
/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ne: 3 Hours  INDUSTRIAL MANAGEMENT (Mechanical Engineering)  Max. Max.	prks: 75	/
Not	te: This question paper contains two parts A and B. Part A is compulsory which	carries 25	
	marks. Answer all questions in Part A. Part B consists of 5 Units. Answer at	iv one full	
	question from each unit. Each question carries 10 marks and may have a, 1 questions.	o, c as sub	
AG	AG AG ARE-A AG AG	(25 Marks)	/
1.a)	State the two salient features of Herzberg's Two-Factor Theory of Motivation	(25 Marks)** 1. [2]	
b)	State the social responsibilities of management.	[3]	
c) d)	State the concept of organization chart.  State the features of boundary less organization.	[2]	
, e)	State the factors to be considered for location of plant.	[3] [2],	
$\triangle (-1)$	State the steps involved in RPW method for line balancing problem	[3]\	1
/ \ \ g)	What is allowance? What are the different types of allowances to be		j
h)	establishing standard time. What is meant by producer risk and consumer risk with respect to OC curves?	[2]	
i)	State the advantages of job evaluation.	[3] [2]	
j)	What is meant by crashing? How is it done?	[3]	
	Define leadership. What are the characteristics of leadership?  Discuss the contributions of Taylor to the theory of management. Explair regarded as the father of scientific management.	(50 Marks) / why is he [5+5]	_
3.	OR  Evaluin the McCreace's theory (V)		
). 	Explain the McGregor's theory 'X' and theory 'Y'. How do these theomotivate the employees?	ories help to	
A(z)	$\Delta(-1)$ $\Delta(-1)$ $\Delta(-1)$ $\Delta(-1)$		$\triangle$
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 adv	antages and	
b)	disadvantages.		
$\wedge \bigcirc^{b)}$	What is boundaryless organization? Give its chart, advantages and disadvantage	es. [5+5]	Λ
<b>/</b>	Write the characteristics of the following methods of production		
	a) Job order b) Batch and c) Mass.	[10]	
7.	OR Explain features, advantages, limitations and suitability of following layouts:		
,,	a) Product layout b) Process layout c) Fixed position layout.	[10]	
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8.a) Explain steps in stop watch time study for determining Standard time. b) State the advantages and limitations of stopwatch time over work sampling. [5+5] The following table gives the number of defects in a casting used for making crank case of 9.a) a diesel engine. Casting no 10 25 10 12 20 15 Number of 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. 10. List out various methods of job evaluation. Explain any two them in detail. The following represents a project that should be scheduled using PERT 11. Immediate Times(days) .Activity Predecessors Optimistic -Most. likely Pessimistic. time / time time À 10 22 28 В A 4 4 10 С 4 6 A 14 D 2 В 3 C E 5 9 F 7 8 C,D 9 a) Draw the network b) What is critical path & the expected project completion time c) What is the probability of completing this project within 35 days. [10] --ooOoo--

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