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	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDEI	RABAD	
$\Lambda \cap$	B. Tech IV Year II Semester Examinations, April - 2018		/
	PLANT LAYOUT AND MATERIAL HANDLING (Mechanical Engineering)	j // 1	L
Tim	2.1	/ \ \	/
	TVEAX.	Marks: 75	
11016	This question paper contains two parts A and B.		
	Part A is compulsory which carries 25 marks. Answer all questions in P	'art A. Part B	
A /**	consists of 5 Units. Answer any one full question from each unit. Each question from each unit.	lestion carries	
A $($ $-$	10 marks and may have a, b, c as sub questions.	<u> </u>	/
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	PART - A		
1 0)	What are the sales of the sales of	(25 Marks)	
1.a) b)	What are the advantages of process layout? Enumerate various horizontal type layouts.	[2]	
c)	Write the advantages of CRAFT	[3]	
\wedge \bigcirc d)	Define quadratic approach method	[2]	Λ
(e)	Why Material characteristics are required for design of material handling equ	uipment? [2]	
f)	What type of material handling equipment required In Fixed position layout	? [3]	*
g)	What are the methods to control the AGVs?	[2]	
h) i)	What are the various material handling costs?	[3]	
j)	Enlist the benefits of Ergonomics in material handling. Write the name of few types of equipment for which safe guarding is require	[2]	
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\$ Mount 2		(50 Marks)	/
2.	What is plant layout? Enlist the differences between fixed layout and fi	xed position	
	layout.	[10]	
3.	OR Frumerate the differences between Process Javant & Part 1 1	54.07	
A 275	Enumerate the differences between Process layout & Product layout.	[10]	
4.	What is CORELAP? Write the procedural steps of CORELAP for Layout des	sign. [10]	A
5.	Find an improved layout for the initial layout given by Figure by using CRA	FT pair wise	
	exchange technique. The interdepartmental flows are also furnished alo	ng with the	
	interdepartmental cost matrix.	[10]	
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