Reg No.:	Name:

## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

## Course Code: ME476 Course Name: Material Handling & Facilities Planning

Max. Marks: 100 Duration: 3 Hours

		PART A  Answer any three full questions, each carries 10 marks.	Marks
1	a)	Explain product and process layouts with examples	(4)
	b)	Draw a flowchart of systematic layout patterning plan for a manufacturing	(6)
		industry.	
2	a)	Explain the significance of From-To chart.	(5)
	b)	Explain largest candidate rule technique for line balancing	(5)
3	a)	Briefly explain automated layout design programme.	(5)
	b)	Explain any four important environmental aspects for layout design in industry.	(5)
4		Explain different types of plant services in industries.	(10)
		PART B  Answer any three full questions, each carries 10 marks.	
5		Explain environmental causes of accidents. What are the corrective actions to	(10)
		eliminate them?	(10)
6		What is air pollution? Name the various sources of air pollution.	(10)
7		Explain the factors that influence the selection of material handling equipment?	(10)
8	a)	List any two functions of material handling.	(2)
	b)	List any four advantages of a good handling system.	(4)
	c)	Discuss the application of fork lift truck.	(4)
		PART C	
9		Answer any four full questions, each carries 10 marks.  Explain types of storage systems with examples.	(10)
10		Explain the basic material handling methods?	(10)
11		Explain the equipment oriented and material oriented handling systems.	(10)
12		Explain the design methodology followed for different material handling equipments	(10)
13		Explain hoppers and crushers used in material handling.	(10)
14		Explain preventive and breakdown maintenance practices.	(10)

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