Seventh Semester B.E. Degree Examination, June/July 2019 Facility Planning and Design

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

1	a. b.	List and explain factors influencing plant location. Explain the following types of plant layout with a suitable block diagram: i) Process layout	(06 Marks)
	c.	ii) Combination layout. List out the objectives of good plant layout.	(08 Marks) (06 Marks)
2	a. b.	Explain briefly the various principles of material handling. What are the factors to be considered for selecting material handling equipment?	(10 Marks) (10 Marks)
3	a.	Explain with a block diagram of computerized relationship layout planning [COR	ELAP].
	b.	Explain with a block diagram the computerized relative allocation of facility	(10 Marks)
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4	a.	List and explain the factors for consideration in space planning.	(10 Marks)
	b.	Briefly explain area allocation and give any five considerations for area allocation	(10 Marks)
			(IV MILES)
		DART D	
		PART – B	
5	a.	Give the systematic procedure for a manufacturing facility and explain in brief.	(10 Marks)
	b.	List and explain the three alternative methods of representing layout plans.	(10 Marks)
6	a.	With a suitable example, explain single facility location model.	(10 Marks)
	b.		(10 Marks)
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7	a.	Write a short note on: i) Conveyor models	
		ii) Storage models.	(10 Marks)
	b.	Briefly explain the following:	(To Marks)
		i) Warehouse layout model	
		ii) Automated storage and retrieval system.	(10 Marks)
8	a.	Briefly explain the different phases in the implementation of facility plan.	(10 Marks)
	b.	How can the facility plan be maintained? Explain in brief.	(10 Marks)