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10MA73

Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
Facility Planning and Design

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting
at least TWO questions from each part.**

PART – A

- 1 a. Explain theory of location by sargent? (10 Marks)
b. What are the objectives of good plant layout? (10 Marks)
- 2 a. Explain the principles of material handling. (10 Marks)
b. List and explain major types of identification and communication equipment. (10 Marks)
- 3 a. Explain CRAFT programme with flow chart. (10 Marks)
b. What are the advantages of ALDEP and limitations of ALDEP? (10 Marks)
- 4 a. Explain the factors influencing the working conditions and controlled by layout arrangements. (10 Marks)
b. Explain two types of tool cribs. (10 Marks)

PART – B

- 5 a. What are the alternative methods of representing layout plans? Explain. (10 Marks)
b. Explain the steps of developing written report for facility planning. (10 Marks)
- 6 a. Explain facility location models. (10 Marks)
b. What do you mean by automated storage and retrieval system? (10 Marks)
- 7 a. With a neat sketch, explain towline conveyors. (10 Marks)
b. What are bulk belt conveyors? What is the maximum angle of incline and delivered capacity? (10 Marks)
- 8 a. Explain implementation phases of facility plan. (10 Marks)
b. List common reasons for firms failing to conduct audit. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.