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Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. Mention at least 6 factors affecting plant location and explain them in brief. (06 Marks)
- b. Explain with an example, the process layout and fixed position layout with respect to plant layout. (10 Marks)
- c. Explain the theory of location by sargent in brief. (04 Marks)
- 2 a. What are the major types of identification and communication equipments, explain them in brief. (10 Marks)
- b. List and explain the material handling principle in detail. (10 Marks)
- 3 a. Explain with a flow chart CRAFT programme. (10 Marks)
- b. Briefly explain ALDEP computer programme. (10 Marks)
- 4 a. What are the functional requirements of store room? (06 Marks)
- b. Explain the general procedure to be followed during the planning an efficient work place. (10 Marks)
- c. List and explain the safety precautions to be taking while working in a industry. (04 Marks)

PART – B

- 5 a. What are the alternative methods of representing two dimensional layout planning? Explain the in brief. (10 Marks)
- b. Explain in detail, the steps involved in process of developing the written report. (10 Marks)
- 6 Write a short note on :
 - a. Rectilinear facility location problem
 - b. Single facility minisum location problem
 - c. Location – allocation models
 - d. Special facility layout models. (20 Marks)
- 7 a. Explain in brief, the automated storage and retrieval systems. (10 Marks)
- b. Enlist the conveyor models. Explain them in brief. (10 Marks)
- 8 a. How do you evaluate the facility planning? (05 Marks)
- b. Explain the following :
 - i) Implementing the facility plan
 - ii) Selecting of the facilities plan
 - iii) Maintaining the facilities plan. (15 Marks)

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