

CBCS SCHEME

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18IP822

Eighth Semester B.E. Degree Examination, June/July 2023 Facility Planning and Design

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. How to select site for plant location? (10 Marks)
- b. What are the five objectives of plant layout? (10 Marks)

OR

- 2 a. What are the principles of material handling? (10 Marks)
- b. Give examples of non mechanized material handling equipments and advantages. (10 Marks)

Module-2

- 3 a. Explain James and Reeds approach for plant layout? (10 Marks)
- b. Prepare activity relationship chart for foundry. (10 Marks)

OR

- 4 a. Explain systematic layout planning. (10 Marks)
- b. Explain needs activity relation diagram. (10 Marks)

Module-3

- 5 a. What factors considered for space determination? (10 Marks)
- b. How to establish tool space requirement for lathe. (10 Marks)

OR

- 6 a. Explain methods of constructing layout. (10 Marks)
- b. Explain aisles column in plant space determination. (10 Marks)

Module-4

- 7 a. Explain multifacility model with an example. (10 Marks)
- b. What are the advantages of block stacking? (10 Marks)

OR

- 8 a. Explain conventional layout model. (10 Marks)
- b. What is location allocation model? Explain. (10 Marks)

Module-5

- 9 a. Write a note on CRAFT and list applications. (10 Marks)
- b. Expand and explain uses of PLANET. (10 Marks)

OR

- 10 a. Explain CORELAP applications. (10 Marks)
- b. Compare computerized layout techniques. (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.