

b. Explain the following forecasting methods :

- i) Exponential smoothing
- Linear Regression ii)

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OR

What is forecasting? List the steps involved in forecasting process. a. (10 Marks)

- A firm use simple exponential smoothing with $\alpha = 0.1$ to forecast demand. The forecast for b. the week of February 1 was 500 units, where as actual demand turned out to be 450 units.
 - i) Forecast the demand for the week of February 8
 - ii) Assume that the actual demand during the week of the February 8 turned out to be 505units. Forecast the demand for the week of February 15. Continue on forecasting through March 15, assuming the sub sequent demands were actually 516, 488, 467, 554 and 510 units. (10 Marks)

(08 Marks)

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Module-3

Explain the various factors that influence the location of plants. 5 a. b.

- Define the following :
 - Design capacity i)
 - System capacity ii)
 - iii) Capacity planning
 - Facility layout iv)

OR

- Sketch and explain any two types of layouts. 6 a.
 - What is facility layout? What factors determines the types of layout used in an organization. b. (10 Marks)

Module-4

- Define aggregate planning and master scheduling. Explain the pure strategies used for 7 a. aggregate planning in brief. (10 Marks)
 - List the common strategies used in aggregate planning. Explain any two. (10 Marks) b.

OR

What are the objectives and importance of aggregate planning? 8 (10 Marks) a. Briefly explain the following with the help of a flow chart. b.

- i) Aggregate planning
- ii) Master scheduling

Module-5

- What are the benefits and limitation of MRP? 9 a.
 - State the importance of purchasing and supply management. b.

OR

- Briefly explain the following : 10 a.
 - i) Vendor Development
 - ii) E-procurement
 - iii) Concept of tenders
 - iv) The procurement process
 - Write a note on make or buy decision. b.

(10 Marks) (10 Marks)

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(10 Marks)

(10 Marks)

(10 Marks)

(10 Marks)

(10 Marks)

(10 Marks)