

Exam.Code:0944
Sub. Code: 6737

2053
B.E. (Mechanical Engineering)
Eighth Semester
MEC-804 (g): Production and Operations Management

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) What is an operation Management? Briefly explain.
- b) State any two principles of Plant layout?
- c) Draw Gantt Load Chart and explain it in brief.
- d) What is Inventory Control? List out the methods of Inventory Control?
- e) What do you mean by Acceptance Sampling? (5x2)

UNIT - I

- II. a) What is Production and Operation Management (POM)? Give its scope, objectives and importance?
b) Differentiate between product and process layout? Also discuss the significance of each type? (2x5)
- III. "First plan your work and then work your plan". Comment on this statement with respect to production planning and control? (10)
- IV. Discuss the factors affecting the facility location analysis. Also explain the factors which could affect the decision to set up a bottling plant in Punjab. (10)

UNIT - II

- V. A biscuit manufacturing company buy a lot of 10,000 bags of wheat per annum the cost per bag is Rs 500/- and the ordering cost is Rs 400/- the inventory cost is estimated as 10% of price of the wheat. Determine EOQ. (10)

P.T.O.

(2)

- VI. Explain different inventory control techniques and their applications in material management. (10)
- VII. a) Distinguish between ABC & VED Inventory Control Technique.
b) Discuss about TQM management techniques. (2x5)

x-x-x