

[illegible]

4. Explain the following :
 - a) Recursive relations.
 - b) Capital budgeting.
 - c) Discuss the method for solving two person zero-sum games.
 - d) Comparison between Linear programming versus dynamic programming.
5. Explain Inventory models. If demand rate uniform & production rate infinite then obtain optimal lot size formula. Also find resulting minimum average cost per unit time.
6. Explain :
 - a) Discuss the characteristics of dynamic programming.
 - b) Explain Probabilistic EOQ models.
7. A company has a demand of 12,000 units/year for an item & it can produce 2,000 such items per month. The cost of one set up is Rs.400 & the holding cost/unit/month is Rs 0.15. Find the optimum lot size & the total cost per year, assuming the cost of 1 unit as Rs 4. Also find the maximum inventory manufacturing time & total time.
8. Explain the followings :
 - a) Cargo loading & Reliability problems.
 - b) Discuss EOQ with price brakes.