

QUESTION BANK ON OPERATIONS RESEARCH

UNIT-1: Basics of operations research

Q3. What are the limitations of OR?

Q4. Describe the various objectives of OR.

Q5. What are the main characteristics of OR? Explain with suitable examples.

Q6 Give features of OR. Briefly discuss technique and tools of OR.

Q7. What is the role of decision making in OR. Explain its scope.

Q8. "OR is the application of scientific methods, technique and tool to problems involving the operation of a system so as to provide those in control of the system with optimum solution to the problems."

Q9. Discuss the significance and scope of OR in modern management.

UNIT-1: Linear Programming

Q1. What are the essential characteristics of a linear programming model?

Q2. What is linear programming? Discuss the application of linear programming to managerial decision making.

Q3 Discuss the assumption of proportionality, additivity, continuity, certainty and finite choices in the context of linear programming problems.

Q4. Explain the meaning of linear programming problem stating its uses and give its limitations.

Q5. Write at least five application areas of linear programming.

Q6. A small manufacturer employs 5 skilled men and 10 semi skilled men and makes an article in two qualities, a deluxe model and an ordinary model the making of deluxe model requires 2 hours work by a skilled man and 2 hours work by a semi-skilled man. The ordinary model requires 1 hour work by a skilled man and 3 hour work by a semi-skilled man. By union rules no man can work more than 8 hours per day. The manufacturer's clear profit of the deluxe model is Rs.10 and of ordinary model Rs.8. Formulate the model of the problem.

Q7. Old hens can be bought for Rs.2 each but young one cost Rs.5 each. The old hens lay 3 eggs per week, and young one 5 eggs per week, each egg being worth 30 paise. A hen cost Re.1 per week to feed. If a person has only Rs.80 to spend on hens, how many of each kind should he buy to get a profit of more than Rs.6 per week assuming that he can't house more than 20 hens?

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J Dewey



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