



KINGS
COLLEGE OF ENGINEERING
Punalkulam



DEPARTMENT OF MATHEMATICS
ACADEMIC YEAR – 2011 – 12(ODD SEMESTER)

QUESTION BANK

SUBJECT CODE/NAME: MG1402 - OPERATIONS RESEARCH
YEAR/SEM: IV/VII

BRANCH: EEE

UNIT-I LINEAR PROGRAMMING(LP)

PART-A

1. What is operations research?
2. What are the phases of an operations research study?
3. Define a feasible solution.
4. Define optimal solution.
5. What is the difference between feasible solution and basic feasible solution?
6. Define unbounded solution.
7. What are the two forms of a LPP?
8. What do you mean by standard form of LPP?
9. What do you mean by canonical form of LPP?
10. What are the limitations of LPP?
11. What are the slack and surplus variables?
12. what is meant by decision variable?
13. Define artificial variable.
14. What are the methods used to solve an LPP involving artificial variables?
15. What is degeneracy?

PART-B

1. (a) Explain the scope of OR. (8)
(b) List the phases of OR and explain them. (8)
2. (a) A company manufactures two products A and B. Each unit of B takes twice as long to produce as one unit of A and if the company were to produce only A it would have time to produce 2000 units per day. The availability of the raw material is sufficient to produce 1500 units per day of both A and B combined. Product B requiring a special Ingredient only 600 units can be made per day. If A fetches a profit of Rs.2 per unit and B a profit of Rs.4 per unit, Formulate the optimum product mix. (8)

Mg1402 Operations Research

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