

Sixth Semester B.E. Degree Examination, Dec.2013/Jan.2014
Operations Research

Time: 3 hrs.

Max. Marks:100

*Note: Answer FIVE full questions, selecting
at least TWO questions from each part.*

PART – A

1. a. What is operation research? Mention six phases of an operation research study. (05 Marks)
 b. A manufacturer produces three models I, II, III of certain product using raw materials A and B. The following table gives the data for the problem formulate the LP model:

Raw material	Requirement per unit			Availability
	I	II	III	
A	2	3	5	4000
B	4	2	7	6000
Min demand	200	200	150	-
Profit per unit (Rs.)	30	20	50	-

(05 Marks)

c. Define:

- Feasible solution
- Feasible region
- Optimal solution
- Degeneracy
- Infeasible solution.

(10 Marks)

2. a. Define slack and surplus variables. (04 Marks)
 b. Find all the basic solutions of the following system of equation identifying in each case the basic and non basic variables:

$$2x_1 + x_2 + 4x_3 = 11$$

$$3x_1 + x_2 + 5x_3 = 14$$

(06 Marks)

- c. Solve the following LPP using simplex method in tabular form:

$$\text{Maximize } Z = 5x_1 + 3x_2$$

$$\text{Subject to, } x_1 + x_2 \leq 2$$

$$5x_1 + 2x_2 \leq 10$$

$$3x_1 + 8x_2 \leq 12$$

$$x_1, x_2 \geq 0$$

(10 Marks)

3. a. Express the following LPP in canonical form

$$\text{Maximize } Z = 2x_1 + 3x_2 + x_3$$

$$\text{Subject to, } 4x_1 - 3x_2 + x_3 \leq 6$$

$$x_1 + 5x_2 - 7x_3 \geq -4$$

$$x_1, x_2 \geq 0$$

(06 Marks)

- b. Explain the computational steps of Big-M method. (04 Marks)

c. Solve by Big-M method

$$\text{Minimize } Z = 4x_1 + x_2$$

$$\text{Subject to, } 3x_1 + x_2 = 3$$

$$4x_1 + 3x_2 \geq 6$$

$$x_1 + 3x_2 \leq 3$$

$$x_1, x_2 \geq 0.$$

(10 Marks)

Question Paper On Mg1402 Operation Research

**Maurice Sasieni, Arthur
Yaspan, Lawrence Friedman**



Question Paper On Mg1402 Operation Research:

Students Guide to Operations Research Paul A. Jensen, 1986-06-01 Operation Research: Simulation And Replacement Theory S.C. Sharma, 2006 This book on Operation Research has been specially written to meet the requirements of the M Sc M Com and M B A students for all Indian Universities The subject matter has been discussed in such a simple way that the students will find no difficulty to understand it The proof of various theorems and examples has been given with minute details Each chapter of this book contains complete theory and fairly large number of solved examples sufficient problems have also been selected from various universities examination papers Contents Simulation LPP with Applications Minimization Problem Replacement and Maintenance Theory **Operations Research Analyst** National Learning Corporation, 2003 The Operations Research Analyst Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam Fields of Operations Research Howard W. Kreiner, 1985 *Operations Research Analysis in Test and Evaluation* Donald L. Giadrosich, 1995 This text represents a significant contribution to the available technical literature on military and commercial test and evaluation T E The first chapter provides important history and addresses the vital relationship of quality T E to the acquisition and operations of defense weapons systems Subsequent chapters cover such concepts as cost and operational effectiveness analysis modeling and simulation and verification validation and accreditation among others Operations Research for Management Joseph F. McCloskey, 1954

Elements of Operational Research F. M. Wilkes, 1980 **Methods of Operations Research** Philip McCord Morse, 1952 **Student's Guide to Operations Research** Paul A. Jensen, 1986 **Operations Research** Maurice Sasieni, Arthur Yaspan, Lawrence Friedman, 2013-09 *Operations Research, 2/e* A. M. Natarajan, 2014 Operations research 2e is the study of optimization techniques Designed to cater to the syllabi requirements of Indian universities this book on operations research reinforces the concepts discussed in each chapter with solved problems A unique feature of this book is that with its focus on coherence and clarity it hand holds students through the solutions each step of the way *Operations Research - II* Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Symposium on Operations Research* Symposium on Operations Research, 1986 **Methods of Operations Research** Rudolf Henn, 1967 **Methods of Operations Research** Philip McCord Morse, George E. Kimball, 1958 Operations Research and Management Science Handbook A. Ravi Ravindran, 2016-04-19 Operations Research OR began as an interdisciplinary activity to solve complex military problems during World War II Utilizing principles from mathematics engineering business computer science economics and statistics OR has developed into a full

fledged academic discipline with practical application in business industry government and m *Great Ideas of Operations Research* Jagjit Singh,1972 *Operations Research Methods* Nagel S S.,Neef M.,1986 Introduction to Operations Research Billy E. Gillett,1979-09 Notes on operations research Michigan University. Operation Research Center,1962

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web apr 25 2023 1 as you can see a 1 2 plywood can support up to 35 pounds per square foot but doubling that thickness to 1 of plywood supports up to 164 pounds per square foot thick plywood can distribute weight more evenly which reduces the amount of stress on any single point this allows plywood to support heavier loads

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