

# DOWNLOAD

[Operations Research By S.d. Sharma.pdf Free Download](#)

14

Operations Research

#### 1.8.4. Objective of the Problem

To maximise the profit how much of  $X$  and  $Y$  are to be manufactured? That is maximization of the profit or maximization of the returns is the objective of the problem. For this in the statement it is given that the profit contribution of  $X$  is Rs 5/- per unit and that of product  $Y$  is Rs. 7/- per unit.

#### 1.8.5. To establish relationship between variables and constraints and build up a model

Let us say that company manufactures  $x$  units of  $X$  and  $y$  units of  $Y$ . Then as one unit of  $x$  consumes one hour on machine A and one unit of  $y$  consumes one hour on machine A, the total consumption by manufacturing  $x$  units of  $X$  and  $y$  units of  $Y$  is,  $1x + 1y$  and this should not exceed available capacity of 40 hours. Hence the mathematical relationship in the form of mathematical model is  $1x + 1y \leq 40$ . This is for resource machine A. Similarly for machine B and machine C we can formulate the mathematical models. They appear as shown below:

$3x + 8y \leq 240$  for machine B and  $10x + 7y \leq 350$  for machine C. Therefore, the mathematical model for these resources are:

$$\begin{aligned} 1x + 1y &\leq 40 \\ 3x + 8y &\leq 240 \text{ and} \\ 10x + 7y &\leq 350. \end{aligned}$$

Similarly for objective function as the company manufacturing  $x$  units of  $X$  and  $y$  units of  $Y$  and the profit contribution of  $X$  and  $Y$  are Rs.5/- and Rs 7/- per unit of  $X$  and  $Y$  respectively, the total profit earned by the company by manufacturing  $x$  and  $y$  units is  $5x + 7y$ . This we have to maximise. Therefore objective function is Maximise  $5x + 7y$ . At the same time, we have to remember one thing that the company can manufacture any number of units or it may not manufacture a particular product, for example say  $x = 0$ . But it cannot manufacture negative units of  $x$  and  $y$ . Hence one more constraint is to be introduced in the model i.e. a non-negativity constraint. Hence the mathematical representation of the contents of the statement is as given below:

Maximise  $Z = 5x + 7y$  Subject to a condition (written as s.t.) ———— OBJECTIVE FUNCTION.

$$1x + 1y \leq 40$$

$$3x + 8y \leq 240$$

$$10x + 7y \leq 350 \text{ and}$$

$$\text{Both } x \text{ and } y \text{ are } \geq 0$$

||| ———— STRUCTURAL CONSTRAINTS.

————— NON-NEGATIVITY CONSTRAINT.

#### 1.8.6. Identify the possible alternative solutions (or known as Basic Feasible Solutions or simply BFS)

There are various methods of getting solutions. These methods will be discussed later. For example we go on giving various values (positive numbers only), and find various values of objective function. All these are various Basic Feasible Solutions. For example  $x = 0, 1, 2, 3$ , etc. and  $y = 0, 1, 2, 3$  etc are all feasible values as far as the given condition is concerned. Once we have feasible solutions on hand go on asking is it maximum? Once we get maximum value, those values of  $x$  and  $y$  are optimal values. And the value of objective function is optimal value of the objective function. These two steps we shall discuss in detail in the next chapter.

[Operations Research By S.d. Sharma.pdf Free Download](#)

# DOWNLOAD

---

Operations research: an introduction / Hamdy A. Taha. ... 1.1 Operations Research Models 1 ... 12.3.1 Mean and Variance (Standard Deviation) of a Random... J K Sharma. "Operations Research Theory & Applications, 3e", Macmillan India Ltd, 2007. P. K. Gupta and D. S. Hira. "Operations Research", S.. Download Free Sd Sharma. Operations Research. Wordpress. Sd Sharma Operations. Research Wordpress. Getting the books sd sharma operations research ...

Operation Research Notes Pdf Free Download B Tech Study. Operations ... Publications. Operations Research By S D Sharma Text Book Free Download. Operations Research - JK Sharma - Free ebook download as PDF File (.pdf) or read ... -1 FULL Operations Research By S.d.. doktorkv.ru cd dokumen amdal .... Our research confirms that people want to be recognized for interacting with brands. ... SMS Contest gets highly valued in the contest of: Free dinner for one. ... Recover deleted text contacts/call history from Android phones/tablets and SD cards. ... Windows 7 Pc Software Free free download - PDF Reader for Windows 7, ...

### **operations research sharma pdf**

operations research sharma pdf, operations research sharma, operations research sharma book, jk sharma operations research pdf, operations research theory and applications sharma pdf, sd sharma operations research pdf, jk sharma operations research, sd sharma operations research, jk sharma operations research solutions pdf, operations research theory and applications by jk sharma, operations research sd sharma pdf, operations research jk sharma, operations research sd sharma, operations research jk sharma 6th edition, operations research jk sharma pdf free download, operations research jk sharma ebook 5th edition, operations research sd sharma pdf download

Operations Research - Free download as PDF File (.pdf), Text File (.txt) or ... Operations Research (SD Sharma) Kedar Nath Rommath & Co., sd sharma operations research pdf free download Operation Research S.D. B.E. Gillett, Introduction to Operations Research, a Computer Oriented. Sharma: ... Operations Research Solutions Download Pdf, Free Pdf Jk Sharma, followed book by s d sharma, as prescribed for this syllabus. sd sharma operations research .... Nike's tale is both of woe Presentation ERP - Free download as Powerpoint Presentation ( ... provides many benefits to an organizationPresentations (PPT, KEY, PDF) ... PPT presentation I free to view Sap Commercial Project Management Online ... across the enterprise and connects them with finance, HR, and operations.

### **operations research sharma book**

PDF | Many paint producers in Nigeria do not lend themselves to flexible production process which is important ... Download full-text PDF ... Join for free ... Operations Research: Statistical Decision Theory ... importance to decision- maker (Sharma, 2008). ... Mean, standard deviation, range was calculated.. Acces PDF Sd Sharma Operations Research. Wordpress. Sd Sharma ... pdf free download Operation Research S.D. B.E. Gillett., Introduction to Operations .... Sharma, manual 2, Pdf table-by sharma FREE operation Research ... download D. SHARMA account D. 7: Operations by-Research DOC d ...

### **operations research theory and applications sharma pdf**

Operations Research Book By Hira Gupta Pdf - Download Free. ... sacomea Jan 24, 2018 - To find more books about operational research by s d sharma pdf.. Download File PDF Jk Sharma. Operations Research Solutions. It will not waste your time. believe me, the e-book will no question way of being .... Operations Research Text Book By S D Sharma Full B.pdf - search pdf books free download Free eBook and manual for Business, Education, .... OPERATIONS RESEARCH book. Read 4 reviews from the world's largest community for readers.. Free operations research book by s d sharma pdf PDF Book Download Link from FreePDFBook.com, in Books.. Operations Research - JK Sharma - Free ebook download as PDF File (.pdf) or ... Research Solutions Download Pdf , Free Pdf Jk Sharma followed book by s d ... 6aa8f1186b