

6.

# Linear Programming

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Page No.:

PDF-9

Q.1. →

Let us assume, No. of units of product A & B be  $x$  &  $y$  respectively.

1] objective function: Maximize  $Z = 30x + 20y$ .

2] Subject to :-

$10x + 6y \leq 1000 \rightarrow$  foundry Hrs. Limitations.

$5x + 4y \leq 600 \rightarrow$  Machine shop hrs. Limit.

$x, y \geq 0 \rightarrow$  Non-Negativity constraint.

H.W. 2]

Let us assume, No. of units of product A & B be  $x$  &  $y$  respectively.

1] objective function: Maximize  $Z = 40x + 30y$ .

2] Subject to :- Time limited.

$20x + 6y \geq 1500 \rightarrow$  foundry Hrs. limitations

$10x + 4y \geq 900 \rightarrow$  Machine shop hrs. limitation

$x, y \geq 0 \rightarrow$  Non-negativity constraint.