

## QMB

### Roll no- 1105

1. Solve the following LPP by graphical method

$$\text{Min } z = 5x + 3y$$

$$\text{subject to } x + y \geq 200$$

$$3x + 6y \geq 900$$

$$x, y \geq 0$$

2. Suppose an editor of a publishing company claims that the mean time to write a text book is 15 months. A sample of 16 textbook authors is randomly selected and it is found that mean time taken by them was 13 months & standard deviation is 4 months. Using 5 % level significance would you conclude that editor's claim is true?

3. Find the inverse of  $A = \begin{bmatrix} 2 & 3 & 1 \\ 2 & 4 & 1 \\ 3 & 7 & 2 \end{bmatrix}$

### Roll no- 1061

1. Solve the following LPP by simplex method

$$\text{Max } z = 8x + 20y$$

$$\text{subject to } 2x + y \leq 80$$

$$3x + 4y \leq 96$$

$$x, y \geq 0$$

2. A company manufactures two products A & B. One unit of product A requires 10 machine hrs & 10 labor hrs. One unit of product B requires 20 machine hrs, & 10 labor hrs. Company must utilize maximum 500 machine hrs & 350 labor hrs. Profit per unit of A & B is Rs 8 & Rs.7 respectively Formulate the above problem as LPP
3. A person bought 2 purses at Rs. 500 each. He sold one at 10% profit & other at 2 % loss. Find the total % of gain or loss

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