

KES/BMS/SEM VI/OR /JAN13

TIME: 45MIN

Marks : 20

Note : 1) All questions are compulsory

2) No need to use graph paper

Q.1 Solve the following L.P.P. graphically

6

Max $Z = 8x + 16y$

Subject to

$$x + y \leq 200$$

$$y \leq 125$$

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

$$x, y \geq 0$$

Q.2 Solve the following L.P.P. graphically

6

Min $Z = 600x + 500y$

Subject to $2x + y > 80$

$$x + 2y \geq 60$$

$$x, y \geq 0$$

Q.3 Solve by simplex method

8

Max $Z = 200x_1 + 1800x_2$

Subject to

$$x_1 + x_2 \leq 10$$

$$1000x_1 + 800x_2 \leq 9000$$

$$x_1, x_2 \geq 0$$