

DEPARTMENT : MECHANICAL SEMESTER : 5 SUBJECT NAME : OPERATION RESEARCH SUBJECT CODE : 3151910 FACULTY NAME: Assist. Prof. Kedar H Badheka

## ASSIGNMENT : 2

## UNIT: 2 Exercise on Graphical solution of linear programing problems

- 1. Use graphical method to solve the following LPP . Maximize Z=17  $X_1$  +15  $X_2$ Subject to:  $15X_1$  +25 $X_2 \le 375$  $24X_1$ +11 $X_2 \le 265$ All  $X_1$ ,  $X_2 \ge 0$
- 2. Use Graphical Method to Solve the Following LPP. Maximize  $W = 2y_1 + y_2$ Subjected to  $y_1 + 2y_2 \le 10$   $y_1 + y_2 \le 6$   $y_1 - y_2 \le 2$  $y_1 - 2y_2 \le 1$  and  $y_1, y_2 \ge 0$

