I om aware that any forms of cheating in this exam will result in a zero grade and disciplinary investigation. I accept all rules and regulations regarding anline exam. I give permission for the processing of my personal data as stated in the Clarification Text provided on the Faculty of Engineering website

Ceyhun Erdönmez 150120851

6

Wild West produces two types of combay hots. A type I hot requires three times as much labor as type 2. If the oil available labor time is dedicated to Type 2 alone, the company con produce a total of and 300 hots per day. For Type I and Type 2 respectively. The profit of per Type I hat and \$5 per Type 2 hat. Determine the number of hats of each type that would maximize profit.

ii. Silve the mathematical model of problem

Type 1 hots: T1

Max 871 + 572

Type 2 hats: T2

3T1 + T2 < 450

T1 < 100

T2 < 300

for (50,300): 8x50 + 5x300 = 1900\$for <math>(100,150): 8x100 + 5x150 = 1550\$

for maximize profit T1:50 and T2:300 as a result profit 1900 \$

