

Sub: Roll: 1905004

Day

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

Time:

Date: / /

Sequence: 1 - 6 - 2 - 5 - 3 - 4 - 7

Transition Table:

| P_3, Y_2, Y_1, Y_0 | N_3, Y_2, Y_1, Y_0 |
|----------------------|----------------------|
| 0 0 1 | 1 1 0 |
| 1 1 0 | 0 1 0 |
| 0 1 0 | 1 0 1 |
| 1 0 1 | 0 1 1 |
| 0 1 1 | 1 0 0 |
| 1 0 0 | 1 1 1 |
| 1 1 1 | 0 0 1 |

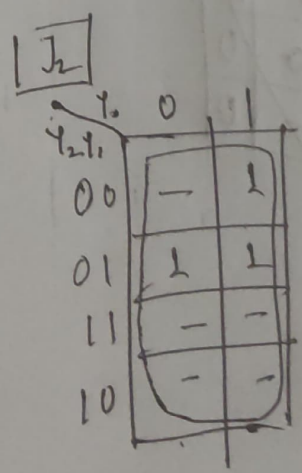
Sub: _____

Day: _____
Time: _____ Date: / /

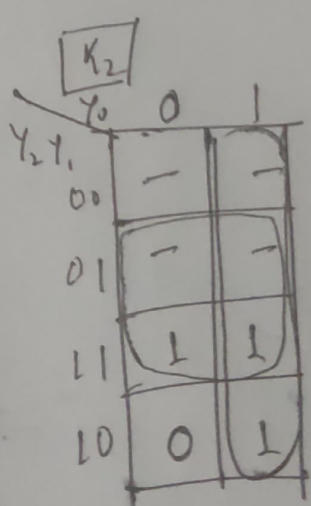
Excitation Table:

| <u>P_3, Y_2, Y_1, Y_0</u> | <u>J_2, K_2</u> | <u>J_1, K_1</u> | <u>J_0, K_0</u> |
|--|------------------------------|------------------------------|------------------------------|
| 00 1 1 | 1 - | 1 - | - 1 |
| 1 1 0 | - 1 | - 0 | 0 - |
| 0 1 0 | 1 - | 0 1 | 1 - |
| 1 0 1 | - 1 | 0 1 | - 0 |
| 0 1 1 | 1 - | - 1 | - 1 |
| 1 0 0 | - 0 | 1 - | 1 - |
| 1 1 1 | - 1 | - 1 | - 0 |

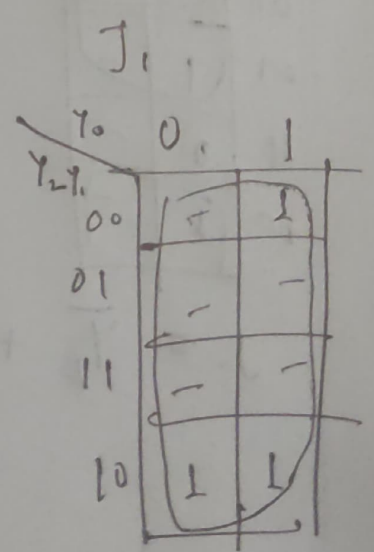
K-maps:



$\therefore J_2 = 1$



$K_2 = Y_0 + Y_1$



$J_1 = 1$

Sub: _____

Day _____

Time: _____

Date: / /

For

K_1

| $y_2 y_1$ \ y_0 | 0 | 1 |
|-------------------|---|---|
| 00 | - | - |
| 01 | 1 | 1 |
| 11 | 0 | 1 |
| 10 | - | - |

$$K_1 = y_0 + \bar{y}_2$$

J_0

| $y_2 y_1$ \ y_0 | 0 | 1 |
|-------------------|---|---|
| 00 | - | - |
| 01 | 1 | - |
| 11 | 0 | - |
| 10 | 1 | - |

$$J_0 = \bar{y}_2 + \bar{y}_1$$

K_0

| $y_2 y_1$ \ y_0 | 0 | 1 |
|-------------------|---|---|
| 00 | - | 1 |
| 01 | - | 1 |
| 11 | - | 0 |
| 10 | - | 0 |

$$K_0 = \bar{y}_2$$

K_0

| $y_2 y_1$ \ y_0 | 0 | 1 |
|-------------------|---|---|
| 00 | - | 1 |
| 01 | 1 | 1 |
| 11 | 0 | 0 |
| 10 | 1 | 0 |