

state transitions from 00 to 01, to 10, to 11, back to 00, and repeats. When $E = 1$ and $F = 0$, the circuit goes through the state transitions from 00 to 11, to 10, to 01, back to 00, and repeats

CLO4

(10 marks)

Q4.

a) Draw the circuit diagram for a 4 X 4 multiplier.

CLO4

(5 marks)

b) Design a Full adder circuit by using 4X1 multiplexer.

CLO4

(5 marks)

Q5. Convert your registration number into binary, octal and hexadecimal number system.

CLO1

(3 marks)

Q6. What are registers and shift registers. Explain the working with an appropriate timing diagram.

CLO2

(7 marks)

Best of Luck!

