

Q-3	Attempt all questions	(14)
(a)	Explain Full Adder with Truth table.	7
(b)	Explain Sum of Product and Simplify Σ (0 to 7).	7
Q-4	Attempt all questions	(14)
(a)	Draw following circuit. 1) $f = (abc + a'b'c)'$ 2) $f = ab + b'c' + (ac)'$	7
(b)	Explain POS and Simplify π (0 to 15).	7
Q-5	Attempt all questions	(14)
(a)	Explain Master Slave Flip Flop with proper circuit.	7
(b)	Explain 4 to 2 line Encoder with proper circuit.	7
Q-6	Attempt all questions	(14)
(a)	What is Register? Explain 8-bit Shift Register with Circuit.	7
(b)	What is Counter? Explain 8-bit Shift Counter.	7
Q-7	Attempt all questions	(14)
(a)	Write a short note on TTL.	7
(b)	Explain 8 x 1 Multiplexer.	7
Q-8	Attempt all questions	(14)
(a)	Write a short note on ECL.	7
(b)	Differentiate between MOS and CMOS.	7

