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6. a) Define Multiplexer with block diagram. b) Implement the following function with a multiplexer: F(A,B,C)= Σ(1,3,5,6) when select bit are	2 4
c) Differentiate between decoder and encoder. Design a 3-to-8 line decoder. 7. a) Define shift register. Write the last of th	2+4
b) Determine the timing diagram of 4-bit serial in parallel out shift register where the register initially contains all 1's.	3 4
c) Show the steps when 1011 being entered into the serial in serial out shift register.d) How shift register is used as a keyboard encoder?	3 2
 a) Differentiate between combinational circuit and sequential circuit with block diagram. b) Define flip-flop. Explain the clocked RS flip-flop with necessary diagram. c) What do you mean by binary counter? Why asynchronous counter is referred to as ripple counter? 	3 6 3
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Good Luck!	
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