

1. (a) Design a BCD to Seven Segment Converter. 10
(b) Implement Full-subtractor using 8:1 MUX. 10
2. (a) Design a 4-bit look ahead adder. 10
(b) Given $F = \sum m(2,4,5,6)$ implement $F(L)$ and $F(H)$ with an A-O-I devices. 10
3. (a) Draw and fully label the general model of a sequential finite state machine. 10
(b) Why we need shift registers in digital design ? Explain the various operation modes of shift register. 10
4. (a) What do you mean by multi input system controller design ? Explain in detail MDS diagram. 10
(b) What is PLA ? Draw and explain its structure. Discuss the PLA based design in detail. 10
5. (a) Explain Hazards with examples. 10
(b) What are essential Hazards ? How these Hazards effect the operation of Asynchronous machine ? Discuss. 10

6. Explain the various MEV approaches to asynchronous circuits in detail. 10
7. (a) Explain wired logic in detail. 10
(b) Using steps and rules for design of asynchronous machines, design a Basic Binary Cell. 10
8. (a) Write a detailed note on electromagnetic interference and electromagnetic compatibility grounding and shielding in digital circuits. 10
(b) What are the timing and frequency considerations for designing system controller ? 10

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