

Time: 1:30 Hr.]

[Total Marks: 30]

Q.1 (a) Simplify the following expressions:

[5]

- i) $AB'C' + A'B'C' + A'BC' + A'B'C'$
- ii) $ABC + A'BC + AB'C + ABC' + AB'C' + A'BC' + A'B'C'$
- iii) $A(A+B+C)(A'+B+C)(A+B'+C)(A'+B'+C')$
- iv) $(A+B+C)(A+B'+C')(A+B+C')(A+B'+C)$
- v) $[(AB''+ABC)'+A(B+AB')]$

(b) Perform BCD Subtraction of the following using 10's complement method:

[3]

- i) 983 - 748
- ii) 786 - 891
- iii) 649 - 387

Q.2 (a) Plot the logical expression $ABCD + AB'C'D' + AB'C + AB$ on a 4 variable K-MAP; obtain the simplified expression from the map.

[2]

(b) Using K-Map method, simplify the following function, obtain its Real Minimal Expression along with implementation using universal gate.(Use NAND logic if minimal expression is SOP and NOR logic if minimal expression is POS)
 $f(w, x, y, z) = \Sigma m (1, 3, 4, 5, 6, 7, 9, 12, 13)$

[3]

(c) Determine the don't care condition in the following boolean expression $BE + B'DE'$ which is a simplified version of expression $A'BE + BCDE + BC'D'E + A'B'DE' + B'C'DE$.

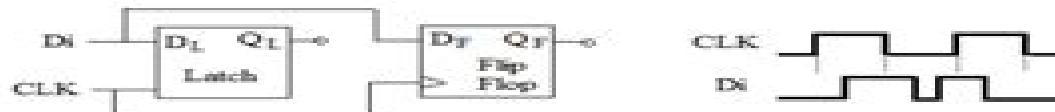
[2]

Q.3 (a) Show all eight entries in characteristics table of JK Flip flop representing Q_{00} as present output and Q_{0110} as next output. Obtain its next state (i.e. Q_{0110}) equation.

[4]

(b) Draw the waveform of output of latch Q_L and output of positive edge triggered flip flop Q_F if $Q_L = Q_F = 0$ initially.

[2]



(c) In SR latch, what will happen if both S and R inputs switch from 1 to 0 simultaneously? Supply your answer with proper diagrams and comments.

[3]

(e) Design and Draw clocked sequential circuit for state diagram shown below using T flip flops.

[5]



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Marco Cascella

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1. Understanding the eBook 1nov 2railway Exam Solved Paper
 - The Rise of Digital Reading 1nov 2railway Exam Solved Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 1nov 2railway Exam Solved Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1nov 2railway Exam Solved Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1nov 2railway Exam Solved Paper
 - Personalized Recommendations
 - 1nov 2railway Exam Solved Paper User Reviews and Ratings
 - 1nov 2railway Exam Solved Paper and Bestseller Lists
5. Accessing 1nov 2railway Exam Solved Paper Free and Paid eBooks
 - 1nov 2railway Exam Solved Paper Public Domain eBooks
 - 1nov 2railway Exam Solved Paper eBook Subscription Services
 - 1nov 2railway Exam Solved Paper Budget-Friendly Options
6. Navigating 1nov 2railway Exam Solved Paper eBook Formats
 - ePUB, PDF, MOBI, and More
 - 1nov 2railway Exam Solved Paper Compatibility with Devices
 - 1nov 2railway Exam Solved Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1nov 2railway Exam Solved Paper
 - Highlighting and Note-Taking 1nov 2railway Exam Solved Paper
 - Interactive Elements 1nov 2railway Exam Solved Paper

8. Staying Engaged with 1nov 2railway Exam Solved Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1nov 2railway Exam Solved Paper
9. Balancing eBooks and Physical Books 1nov 2railway Exam Solved Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1nov 2railway Exam Solved Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1nov 2railway Exam Solved Paper
 - Setting Reading Goals 1nov 2railway Exam Solved Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1nov 2railway Exam Solved Paper
 - Fact-Checking eBook Content of 1nov 2railway Exam Solved Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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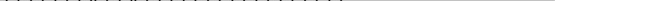
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