

## Third Semester B.E. Degree Examination, Dec.2016/Jan.2017 Analog and Digital Electronics

Time: 3 hrs.

Max. Marks: 80

*Note: Answer FIVE full questions, choosing one full question from each module.*

### Module-1

1. a. Explain the working of N – channel DE – MOSFET, with the help of neat diagram. (08 Marks)
- b. With circuit diagram, explain any two application of FET. (06 Marks)
- c. How CMOS can be used as inverting switch? (02 Marks)

### OR

2. a. Design a voltage divider bias network using a DEMOSFET with supply voltage  $V_{DD} = 16V$ ,  $I_{DSS} = 10mA$  and  $V_P = 5V$  to have a quiescent drain current of  $5mA$  and gate voltage of  $4V$ . (Assume the drain resistor  $R_D$  to be four times the source resistor  $R_S$  and  $R_2 = 1k\Omega$ ). (08 Marks)
- b. Explain the performance parameters of Op-amp. (08 Marks)

### Module-2

3. a. Minimize the following Boolean function using K – map method  
 $f(a, b, c, d) = \sum m(5, 6, 7, 12, 13) = \sum d(4, 9, 14, 15)$ . (06 Marks)
- b. Apply Quine Mc – Clusky method to find the essential prime implicants for the Boolean expression  $f(a, b, c, d) = \sum m(1, 3, 6, 7, 9, 10, 12, 13, 14, 15)$ . (10 Marks)

### OR

4. a. A digital system is to be designed in which the month of the year is given as input is four bit form. The month January is represented as '0000', February as '0001' and so on. The output of the system should be '1' corresponding to the input of the month containing 31 days or otherwise it is '0'. Consider the excess number in the input beyond '1011' as don't care conditions for the system of four variables. (ABCD) find the following :  
 i) Write truth table and Boolean expression in SOP  $\sum m$  and POS  $\prod M$  form.  
 ii) Using K – map simplify the Boolean expression of canonical mini term form.  
 iii) Using Basic gates implement logical circuit. (10 Marks)
- b. What is Hazard? List the type of hazards and explain static 0 and static – 1 hazard. (06 Marks)

### Module-3

5. a. Implement the following function using 8:1 multiplexer  $f(a, b, c, d) = \sum m(0, 1, 5, 6, 8, 10, 12, 15)$ . (06 Marks)
- b. Realize the following function using 3:8 decoder  
 i)  $f(a, b, c) = \sum m(1, 2, 3, 4)$       ii)  $f(a, b, c) = \sum m(3, 5, 7)$ . (04 Marks)
- c. What is Magnitude Comparator? Explain 1 bit magnitude comparator. (06 Marks)

### OR

6. a. Design 7 – segment decoder using PLA. (08 Marks)
- b. Differentiate between Combinational and Sequential circuit. (04 Marks)

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## **Table of Contents Jan 2creplacement Paper**

1. Understanding the eBook Jan 2creplacement Paper
  - The Rise of Digital Reading Jan 2creplacement Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Jan 2creplacement 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 Jan 2creplacement Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jan 2creplacement Paper
  - Personalized Recommendations
  - Jan 2creplacement Paper User Reviews and Ratings
  - Jan 2creplacement Paper and Bestseller Lists
5. Accessing Jan 2creplacement Paper Free and Paid eBooks

- Jan 2replacement Paper Public Domain eBooks
- Jan 2replacement Paper eBook Subscription Services
- Jan 2replacement Paper Budget-Friendly Options
- 6. Navigating Jan 2replacement Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Jan 2replacement Paper Compatibility with Devices
  - Jan 2replacement Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jan 2replacement Paper
  - Highlighting and Note-Taking Jan 2replacement Paper
  - Interactive Elements Jan 2replacement Paper
- 8. Staying Engaged with Jan 2replacement Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jan 2replacement Paper
- 9. Balancing eBooks and Physical Books Jan 2replacement Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jan 2replacement Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jan 2replacement Paper
  - Setting Reading Goals Jan 2replacement Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jan 2replacement Paper
  - Fact-Checking eBook Content of Jan 2replacement 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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