

## 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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