Third Semester B.E. Degree Examination, Dec.2016/Jan.2019 **Analog and Digital Electronics**

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- Explain the working of N channel DE MOSFET, with the help of near diagram.
 - With circuit diagram, explain any two application of FET.

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How CMOS can be used as inverting switch?

(02 Minutes)

- Design a voltage divider bias network using a DEMOSFET with supply voltage Vpp = 16V. Inss = 10mA and Vp = 5V to have a quiescent drain current of 5mA and gate voltage of 4V. (Assume the drain resistor R_0 to be four times the source resistor R_5 and $R_2 = 1 k\Omega$).
 - Explain the performance parameters of Op-anap.

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Module-2

Minimize the following Boolean function using K - map method $f(a, b, c, d) = \sum (5, 6, 7, 12, 13) = \sum (4, 9, 14, 15).$

(06 Minutes):

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 Minetes):

- 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 11' corresponding to the input of the month containing 31 days or otherwise it is '0'. Comader the excess number in the input beyond '1011' as don't care conditions for the system of four variables. (ABCD) find the following :
 - Write truth table and Boolean expression in SOP Σm and POS ΠΜ 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? Dut the type of bazards and explain static 0 and static - 1 hazard.

(06 Marks)

Module-3

- 12, 151, (1966 Pellantical)
 - Realize the following function using 3:8 decoder
 - i) $f(a, b, c) = \Sigma m (1, 2, 3, 4)$ ii) $f(a, b, c) = \Sigma m(3, 5, 7)$.

(04 Marks)

What is Magnitude Comparator? Explain 1 bit magnitude comparator.

(06 Minutes)

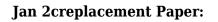
OR

- Design 7 segment decoder using PLA.
 - Differentiate between Combinational and Sequential circuit.

(08 Marks) 00-4 Minutesh

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