CBCS Scheme

USN

Third Semester B.E. Degree Examination, June/July 2017 **Analog and Digital Electronics**

Time: 3 brs.

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

Module-1

- Explain with help of a circuit diagram and characteristic curves working of N-channel DE 1 MOSFET. (12 Nincks)
 - List and explain any one application of FET and its working with circuit Diagram. (04 Marks)

- 2 Explain the performance parameters of operational applifier (08 Marks)
 - Mention and explain the working of any two applications of operational amplifier. (08 Marks) O.

Module-2

- 3. What is a logical gate? Realize ((A + B) · C) Dusing only NAND Gates. (04 Minutes)
 - Describe positive and Negative logic. List the equivalences between them. (04 Minrica):
 - Find the minimal SOP (sum of product) for the following Boolean functions using K-map
 - i) $f(a, b, c, d) = \sum m(6, 7, 9, 10, 13) + d(1, 4, 5, 11)$ ii) $f(a, b, c, d) = \pi M(1, 2, 3, 4, 10) + d(0, 15)$
 - (08 Marks)

- Using Quine MCClusky Method simplify the following Boolean equation. $f(a, b, c, d) = \sum m(0, 1, 2, 3, 10, 11, 12, 13, 14, 15).$ (10 Marks)
 - Define Hazard. Explain Different Types of Hazards.

- Module-3 5 What is multiplexed Design a 32 to 1 multiplexer (MUX) using two 16 to 1 MUX and one 2 to 1 MUX. 004 Marks)
 - Show How using 3 to 8 Decoder and multi input OR gates, following Boolean Expressions can be realized simultaneously
 - $F_1(a, b, c) = \sum m(0, 4, 6), F_2(a, b, c) = \sum m(0, 5), F_3(a, b, c) = \sum m(1, 2, 3, 7)$ (05 Marks) Design 7 segment Decoder using PLA. (07 Marks)

OR

- Implement the Boolean function expressed by SOP f (a, b, c, d) = \(\sum m \) (1, 2, 5, 6, 9, 12) manage 8 to MUX. 60-4 Münrika):
 - (08 Mincks) What is magnitude comparator? Design and explain 2 bit magnitude comparator. (04 Minerks):
 - Differentiate between combinational and sequential circuit.

Module-4

- With a neat logic diagrams and truth table. Explain the working of JK master slave Flip-Flop along with its implementation using NAND Gates. (10 Marries)
 - Derive the characteristic equation for SR, D and JK Flip-Flop.

60% Marriesa

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K.P.Ramachandran

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