1st-half-NK-10BB 113

Con. 3002-10.

AN-2512

10

10

(3 Hours)	[Total Marks : 100

- N.B. (1) Question No. 1 is compulsory.
 - (2) Attempt any four out of remaining six questions.
 - (3) Figures to the right indicate full marks.
- (a) Compare Synchronous and Asynchronous Counter.
 - (b) Convert (BC-ACD), to Octal, Decimal, Binary. (c) Prove that [AB + C (AB + AC)] = AB.
 - (d) A seven bit even parity hamming code is received as 1111101. What is correct data ?
 - (e) Perform 13-22 using 2s complement method and 8 2 using 9s complement method.
- 2. (a) Show that-10 $[(A+B)(A+B)]+[(CD+\overline{CD})+(C\odot D)]$
 - (b) Simplify and implement using Logic gates. 10 Y = (A +B)(B+C) + AB (BC)
- 3. (a) Minimize the following expressin using K-map and realize the circuit using gates = Σ m(0, 1, 3, 5, 7, 8, 9, 10, 11, 12, 14)
 - (b) Simplify the following Boolean function by using Quine MC Clusky method: 12 $f(A, B, C, D) = \sum m (0, 2, 3, 6, 7, 8, 10, 12, 13).$
- (a) Design a BCD to 7 segment (common anode) code converter. Realize the 12 circuit using suitable gates. 8
 - (b) Design full subtractor using Logic gates.
- (a) Convert D flip-flop in to T flip-flop.
 - (b) Design MOD-12 asynchronous riple counter.
- (a) What is shift register? How a shift register can be modified to ring counter 10 and twisted ring counter.
 - (b) Design MOD-5 synchronous counter using J-K flip-flop. 10
- 7. (a) What is programmable logic array (PLA) ? Explain with a neat diagram. What 10 are advantages of PLDs ?
 - (b) What are salient features of TTL family ? Explain following features in relation 10 to TTL family :-
 - (i) Totem Pole Output
 - (ii) Open Collector Output
 - (iii) Wired AND Connection.

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Karin Nielsen-Saines

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