

Con. 3002-10.

(3 Hours)

AN-2512

[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.

1. (a) Compare Synchronous and Asynchronous Counter. 4
 (b) Convert $(BC-ACD)_{16}$ to Octal, Decimal, Binary. 4
 (c) Prove that $[AB + C (\overline{AB} + \overline{AC})] = AB$. 4
 (d) A seven bit even parity hamming code is received as 1111101. What is correct data ? 4
 (e) Perform $13-22$ using 2^s complement method and $8-2$ using 9s complement method. 4
2. (a) Show that— 10

$$[(A+B) (A+B)] + [(CD + \overline{CD}) + (C \oplus D)] = 1$$

 (b) Simplify and implement using Logic gates 10

$$Y = (\overline{A} + \overline{B}) (B + C) + AB (\overline{BC})$$
3. (a) Minimize the following expressin using K-map and realize the circuit using gates 8

$$= \sum m(0, 1, 3, 5, 7, 8, 9, 10, 11, 12, 14)$$

 (b) Simplify the following Boolean function by using Quine MC Clusky method : 12

$$f(A, B, C, D) = \sum m(0, 2, 3, 6, 7, 8, 10, 12, 13).$$
4. (a) Design a BCD to 7 segment (common anode) code converter. Realize the circuit using suitable gates. 12
 (b) Design full subtractor using Logic gates. 8
5. (a) Convert D flip-flop in to T flip-flop. 10
 (b) Design MOD-12 asynchronous ripple counter. 10
6. (a) What is shift register ? How a shift register can be modified to ring counter and twisted ring counter. 10
 (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 are advantages of PLDs ? 10
 (b) What are salient features of TTL family ? Explain following features in relation to TTL family :— 10
 (i) Totem Pole Output
 (ii) Open Collector Output
 (iii) Wired AND Connection.

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Julia Schneider



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