

MANIPAL INSTITUTE OF TECHNOLOGY MANIPAL

(A constituent Institution of MAHE, Manipal)

III SEMESTER B.TECH (ELECTRICAL & ELECTRONICS ENGINEERING) END SEMESTER EXAMINATIONS, NOVEMBER 2018

SUBJECT: DIGITAL ELECTRONIC CIRCUITS [ELE 2102]
REVISED CREDIT SYSTEM

Time: 3 Hours Date: 24, November 2018 Max. Marks: 50
Instructions to Candidates:

Answer ALL the questions.

Missing data may be suitably assumed.

 Given the network of Fig Q1A, determine the functions f₂ and f₃ if f₁ = B and the overall function is to be

 $F(A,B,C,D) = \prod_{f_1} M(1,3,9,11,12,13,14) + d(2,8)$ $f_1 = \prod_{f_2} M(1,3,9,11,12,13,14) + d(2,8)$

Fig Q1A (03)

- 1B. Show how $F = A + B + \overline{C}$ can be implemented with one 2 input NAND gate and one 2 input NOR gate. (02)
- Obtain a minimal SOP expression using Tabular method for the following equation.

 $F(A,B,C,D) = \sum m(2,4,7,9,11,12,14) + d(0,5,6,13,15)$ (05)

2A. Design a 2 bit comparator circuit as shown in the Fig Q2A using 1:16 D-mux and residual - gates



Fig Q2A (04)

- 2B. Write the truth table and design BCD to Seven-segment decoder circuit using common anode configuration (04)
- 2C. Implement, 8-bit addition and subtraction operation using IC 74LS283 (02)
- 3A. Design asynchronous mod-16 up/down counter using positive edge triggered T Flip-flops. Draw the waveform for the same.
 (03)
- 3B. Design a one minute counter using decade 7490 IC's (03)

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