

**Sardar Vallabhbhai National Institute of Technology**  
**Computer Engineering Department**  
**B.Tech. II (CO) 3<sup>rd</sup> Semester**  
**Subject: Digital Circuits (EC207)**  
**Mid Semester Exam (September-2015)**

Time: 1:30 Hr.]

[Total Marks: 30

**Q.1 (a) Simplify the following expressions:** [5]

- i)  $AB'C' + A'B'C' + A'BC' + A'B'C$
- ii)  $ABC + A'BC + AB'C + ABC' + AB'C' + A'BC' + A'B'C'$
- iii)  $A(A+B+C).(A'+B+C).(A+B'+C).(A+B+C')$
- iv)  $(A+B+C).(A+B'+C').(A+B+C').(A+B'+C)$
- v)  $[(AB' + ABC)' + A(B + AB')]'$

**(b) Perform BCD Subtraction of the following using 10's complement method:** [3]  
 i) 983- 748                      ii) 786-891                      iii) 649-387

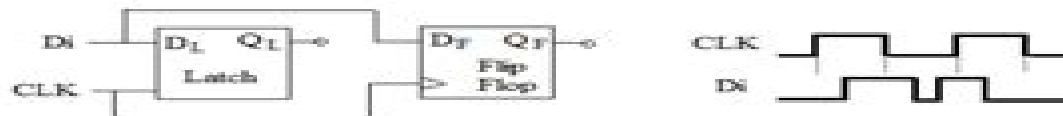
**Q.2 (a) Plot the logical expression  $ABCD + AB'C'D' + AB'C + AB$  on a 4 variable K-MAP; obtain the simplified expression from the map.** [2]

**(b) Using K-Map method, simplify the following function, obtain its Real Minimal Expression along with implementation using universal gate.(Use NAND logic if minimal expression is SOP and NOR logic if minimal expression is POS)** [3]  
 $f(w, x, y, z) = \sum m(1,3,4,5,6,7,9,12,13)$

**(c) Determine the don't care condition in the following boolean expression  $BE + B'DE'$  which is a simplified version of expression  $A'BE + BCDE + BC'D'E + A'B'DE' + B'C'DE'$**  [2]

**Q.3 (a) Show all eight entries in characteristics table of JK Flip flop representing  $Q_n$  as present output and  $Q_{n+1}$  as next output. Obtain its next state (i.e.  $Q_{n+1}$ ) equation.** [4]

**(b) Draw the waveform of output of latch  $Q_L$  and output of positive edge triggered flip flop  $Q_F$  if  $Q_L = Q_F = 0$  initially.** [3]



**(c) In SR latch, what will happen if both S and R inputs switch from 1 to 0 simultaneously? Supply your answer with proper diagrams and comments.** [3]

**(e) Design and Draw clocked sequential circuit for state diagram shown below using T flip flops.** [5]



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