COMP2012 Quiz 3 JIANG Guardin (210939620)

1.(a)
inorder: DBEAFCG
preorder: ABOECFG
postorder: DEBFGCA

Binary Tree: DOD D

Prefix: *-ED*C+BA

Infix: (E-D)*(C*(B+A))

(A MAND C) OR (A AND (MOTB OR NOTC))

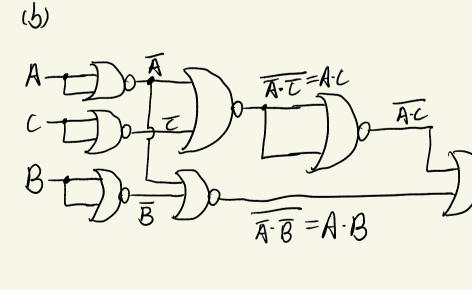
(i)
$$\overline{A \cdot C}$$

(ii) \overline{B}

(iii) \overline{C}

(iv) $\overline{B} + \overline{C}$

(V) $(\overline{A \cdot C}) + (A \cdot (\overline{B} + \overline{C}))$



(C)
$$\begin{array}{c|cccc}
AB & AB & \overline{A} & \overline{B} & \overline{A}B \\
\hline
C & \overline{D} & \overline{D} & \overline{D} \\
\hline
C & \overline{D} & \overline{D} & \overline{D}
\end{array}$$

$$\begin{array}{c|cccc}
FLA,B,C) = AB + C
\end{array}$$