Answers to Analytical Problem

A. dTDP-Rha, UDP-Gal, GDP-Fuc, and UDP-Glc

B. 

\[ \beta-L-Rhap \]

\[ \alpha-D-Galp \]

\[ \alpha-L-Fucp \]

C. & D.
Smith degradation is done in three steps. The first step is oxidation of the glycosyl C-C bonds that contain adjacent hydroxyl groups to form adjacent aldehydes. The second step is the reduction of these aldehydes to primary alcohols. The third step is to remove the resulting glycosyl fragments by mild acid hydrolysis. This latter step occurs since the glycosyl fragments are non-glycosyl acetals that are mild acid labile.