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Solution:(a) For outer tank  $WC(T_i - T_o) + hA(T_1 - T_2) - WC(T_2 - T_o) = ? C$

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**Solutions**  
At steady state  $WC(T_{is} - T_o) + hA(T_{1s} - T_{2s}) - WC(T_{2s} - T_o) = 0$   
(1) - (2) gives  $WC(T_{i'} - T_{2'}) - WC(T_{2'} - T_o) = 0$   
(2)  $WC(T_{i'} - T_{2'}) = WC(T_{2'} - T_o)$   
Substituting numerical values  $10(T_{i'} - T_{2'}) - 10(T_{2'} - T_o) = 0$   
Taking L.T.  $T_{i'}(s) + T_{1}(s) - 2T_{2}(s) = 5s T_{2}(s)$   
Now  $T_{i'}(s) = 0$ , since there is no change in temp of feed stream to outer tank.

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Solution Manual for Process Dynamics

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