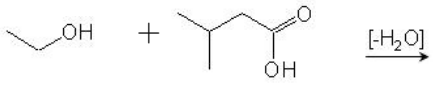
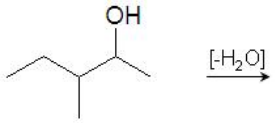
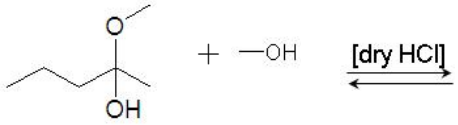
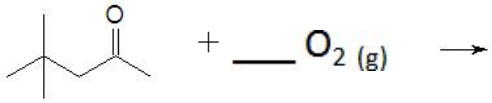
**Complete the following reactions. Circle the most favored products.**

1. 

2. 

3. 

4. 

5. 

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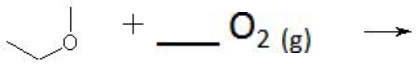
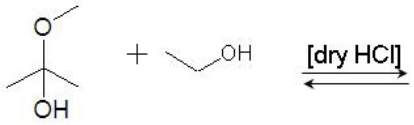
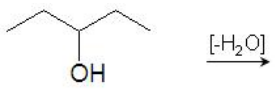
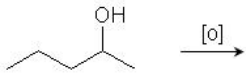
7. 

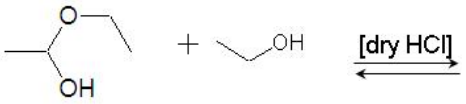
8. 

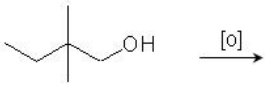
9. 

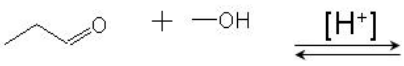
10. 

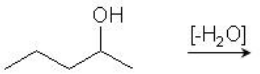
11. 

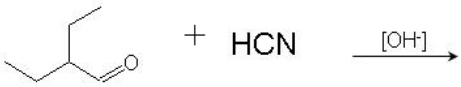
12. 

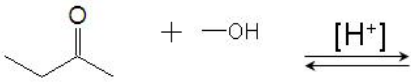
13. 


14. 

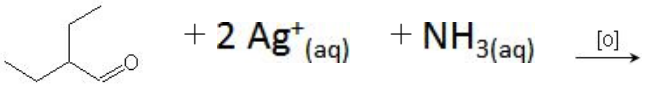

15. 

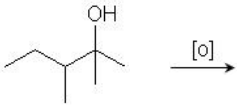

16. 


17. 

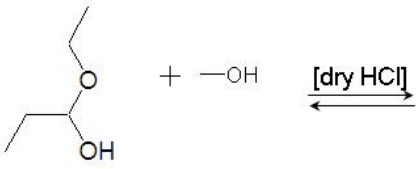

18. 

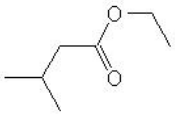

19. 

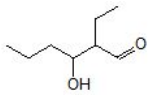

20. 

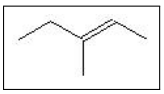

21. 

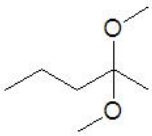

22. 


23. 

Question 1:  + $H_2O$

Question 2: 

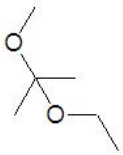
Question 3:  +  + $H_2O$

Question 4:  + $H_2O$

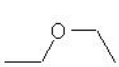
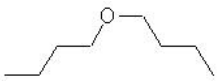
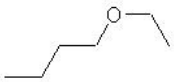
Question 5: ___ $CO_2$ (g) + ___ $H_2O$ (g) + Heat Balance: (1,10,7,7)

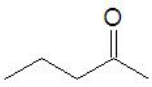
Question 6:  + $H_2O$ Rate: Very Slow

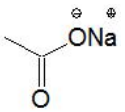
Question 7: ___ $CO_2$ (g) + ___ $H_2O$ (g) + Heat Balance: (2,9,6,8)

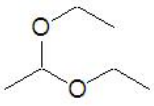
Question 8:  + $H_2O$

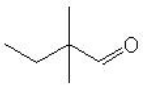
Question 9:  + $H_2O$

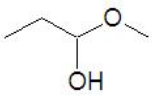
Question 10:  +  +  + $H_2O$

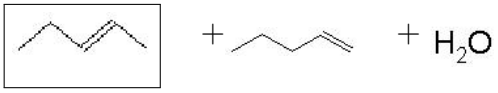
Question 11:  + $H_2O$

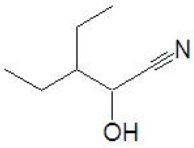
Question 12:  + $Cu_2O_{(s)}$ + $H_2O$ Visible Change: clear blue $\longrightarrow$ brick-red ppt

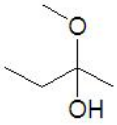
Question 13:  + $H_2O$

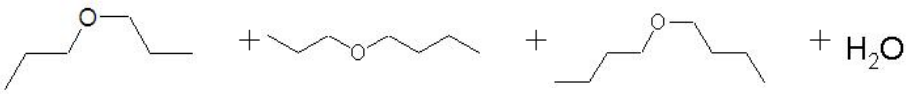
Question 14:  + $H_2O$

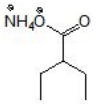
Question 15: 


Question 16:  $+ H_2O$

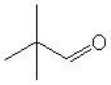
Question 17: 

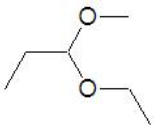

Question 18: 


Question 19:  $+ H_2O$

Question 20:  $+2\ Ag_{(s)}$ Visible Change: clear $\longrightarrow$ Silver Mirror

Question 21: No Reaction

Question 22:  $+ H_2O$ Visible Change: orange-red $\longrightarrow$ green-blue

Question 23:  $+ H_2O$