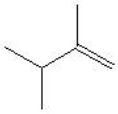
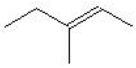
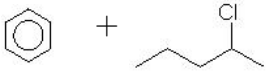
Complete the following reactions. Circle the most favored products.

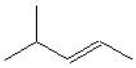
1. + HCl →

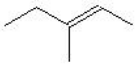
2. + H_2O →

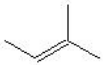
3.  + Cl_2 →

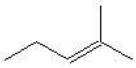
4.  + $KMnO_4 + H_2O$ →

5.  + →

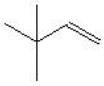
6.  + H_2O →

7.  + H_2 (g) →

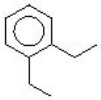
8.  + $KMnO_4 + H_2O$ →

9.  + Cl_2 →

10. + H_2 (g) →

11.  + $KMnO_4 + H_2O$ →

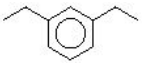
12. + Cl_2 →

13.  $\xrightarrow{[o]}$

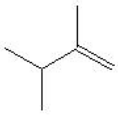
14.

15. + $KMnO_4 + H_2O$ →

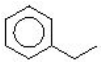
16. + H_2O →

17.  $\xrightarrow{[o]}$

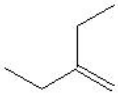
18. + $KMnO_4 + H_2O$ →

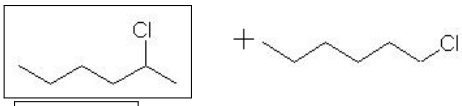
19.  + $KMnO_4 + H_2O$ →

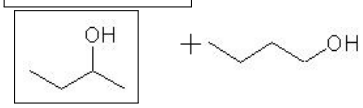
20. + $KMnO_4 + H_2O$ →

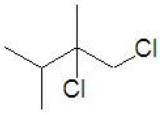
21.  $\xrightarrow{[o]}$

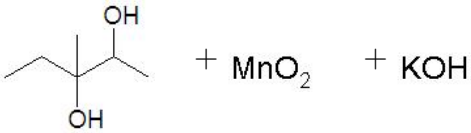
22. + HCl →

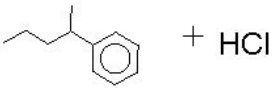
23.  + H_2O →

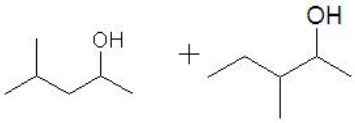
Question 1: 

Question 2: 

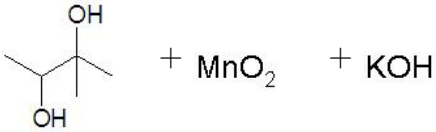
Question 3: 

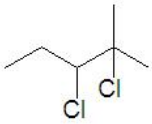
Question 4: 

Question 5: 

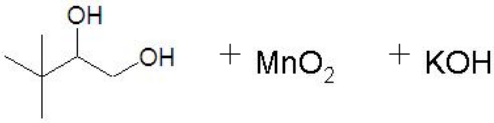
Question 6: 

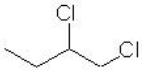
Question 7:

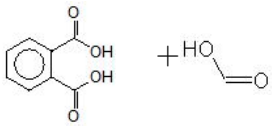
Question 8: 

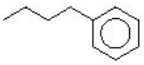
Question 9: 

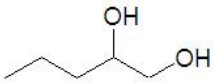
Question 10:

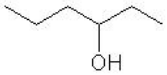
Question 11: 

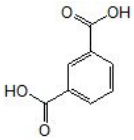
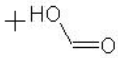
Question 12: 

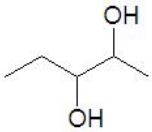
Question 13: 

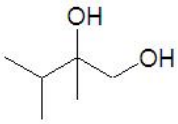
Question 14:  + HCl

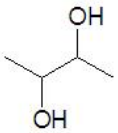
Question 15:  + MnO_2 + KOH

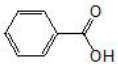
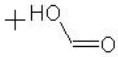
Question 16: 

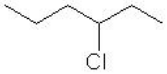
Question 17:  + 

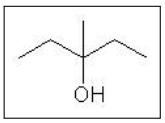
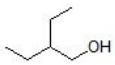
Question 18:  + MnO_2 + KOH

Question 19:  + MnO_2 + KOH

Question 20:  + MnO_2 + KOH

Question 21:  + 

Question 22: 

Question 23:  +