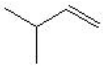
Complete the following reactions. Circle the most favored products.

1. + $KMnO_4 + H_2O$ →

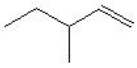
2. + →

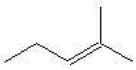
3.  + HCl →

4. + H_2 (g) →

5. + HCl →

6. + H_2O →

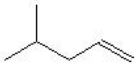
7.  + $KMnO_4 + H_2O$ →

8.  + $KMnO_4 + H_2O$ →

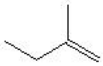
9. + Cl_2 →

10. + HCl →

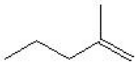
11. + HCl →

12.  + Cl_2 →

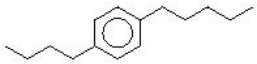
13. + H_2O →

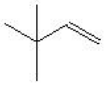
14.  + HCl →

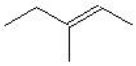
15. + Cl_2 →

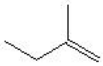
16.  + HCl →

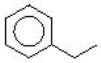
17. + Cl_2 →

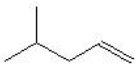
18.  $\xrightarrow{[o]}$

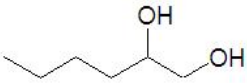
19.  + H_2O →

20.  + HCl →

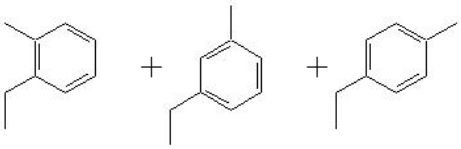
21.  + H_2O →

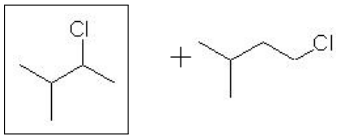
22.  $\xrightarrow{[o]}$

23.  + HCl →

Question 1: 

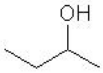
+ MnO_2 + KOH

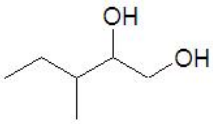
Question 2:  + HCl

Question 3: 

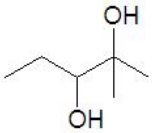
Question 4:

Question 5:

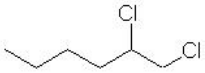
Question 6: 

Question 7: 

+ MnO_2 + KOH

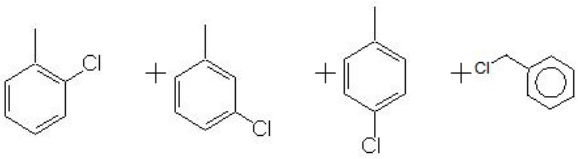
Question 8: 

+ MnO_2 + KOH

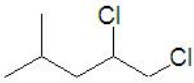
Question 9: 

Question 10:

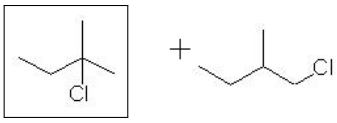
+ H_2 (g)

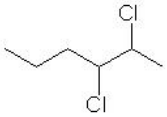
Question 11: 

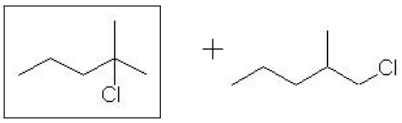
+ H_2 (g)

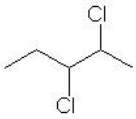
Question 12: 

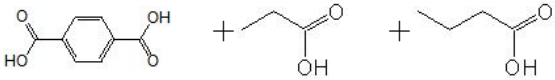
Question 13:

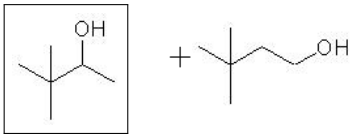
Question 14: 

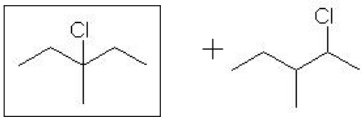
Question 15: 

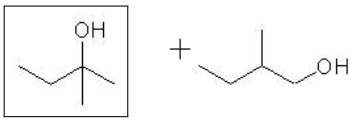
Question 16: 

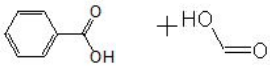
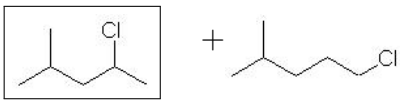
Question 17: 

Question 18: 

Question 19: 

Question 20: 

Question 21: 

Question 22: 

Question 23: