Complete the following reactions. Circle the most favored products.

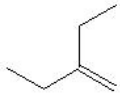
1. + Cl_2 →

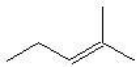
2. + H_2O →

3. + HCl →

4. + H_2 (g) →

5. + –Cl →

6.  + Cl_2 →

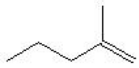
7.  + Cl_2 →

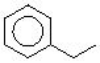
8. + $KMnO_4 + H_2O$ →

9. + →

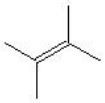
10. + H_2 (g) →

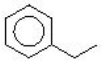
11. + Cl_2 →

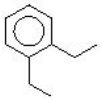
12.  + H_2O →

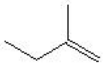
13.  + HCl →

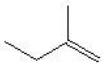
14.

15.  + $KMnO_4 + H_2O$ →

16.  + Cl_2 →

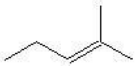
17.  $\xrightarrow{[o]}$

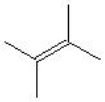
18.  + Cl_2 →

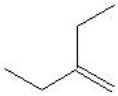
19.  + $KMnO_4 + H_2O$ →

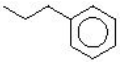
20. + Cl_2 →

21. + $KMnO_4 + H_2O$ →

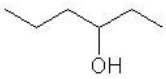
22.  + H_2O →

23.  + H_2O →

24.  + H_2O →

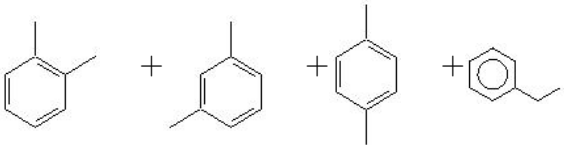
25.  $\xrightarrow{[o]}$

Question 1:

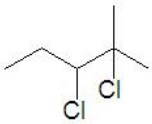
Question 2: 

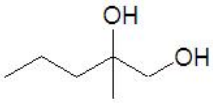
Question 3:

Question 4:

Question 5: 

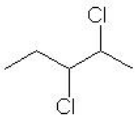
Question 6:

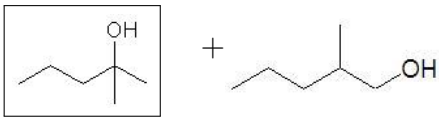
Question 7: 

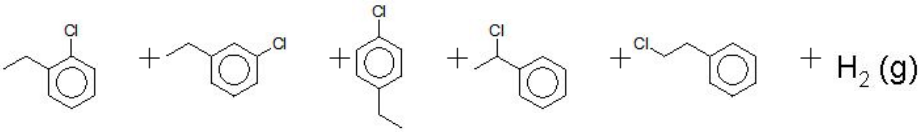
Question 8: 

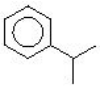
Question 9:

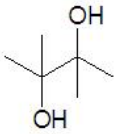
Question 10:

Question 11: 

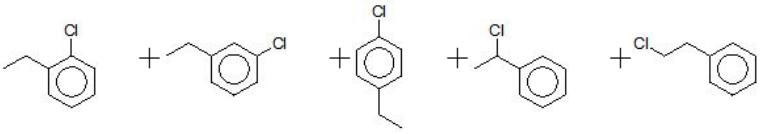
Question 12: 

Question 13: 

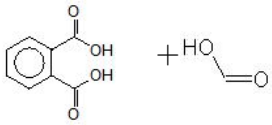
Question 14: 

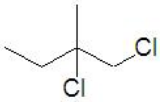
Question 15: 

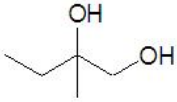
+ MnO_2 + KOH

Question 16: 

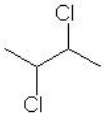
+ HCl

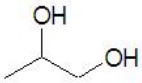
Question 17: 

Question 18: 

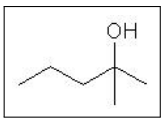
Question 19: 

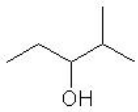
+ MnO_2 + KOH

Question 20: 

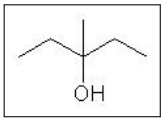
Question 21: 

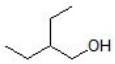
+ MnO_2 + KOH

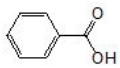
Question 22: 

+ 

Question 23:

Question 24: 

+ 

Question 25: 

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