



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

P/I-CHEMISTRY

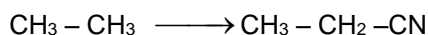
**DPP**

DAILY PRACTICE PROBLEMS

**DPP NO. 1**

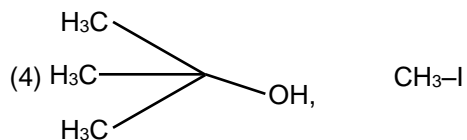
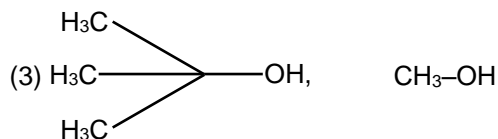
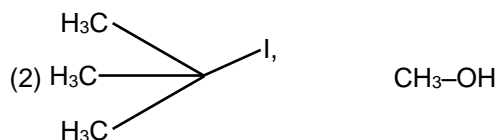
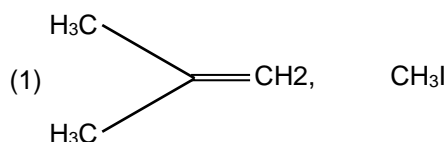
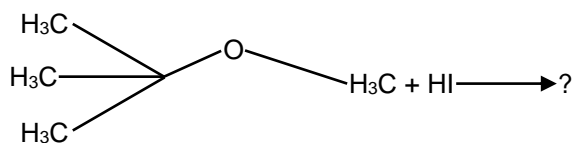
**DPP No. : 1**

1. The correct sequence of reagents for following reaction is :



- (1) (i) HCl (ii) KCN  
 (2) KCN  
 (3) (i)  $\text{Cl}_2/h\nu$  (monochlorination) (ii) KCN  
 (4) (i) NaCl (ii) KCN

2. The major products formed in the following reaction are :



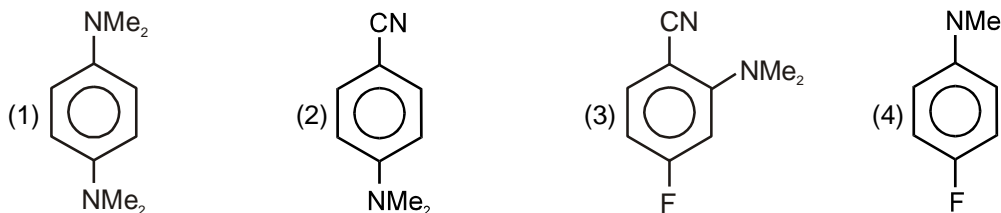
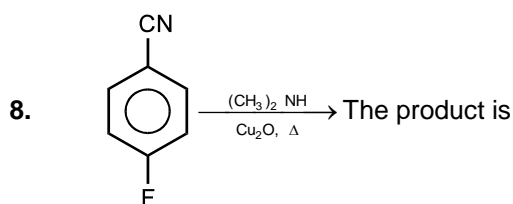
3. Given below are two statements:

**Statement I:** In Lucas test, primary, secondary and tertiary alcohols are distinguished on the basis of their reactivity with conc. HCl + ZnCl<sub>2</sub>, known as Lucas Reagent.

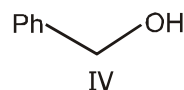
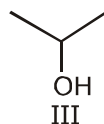
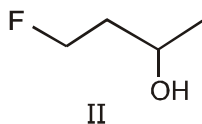
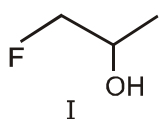
**Statement II:** Primary alcohols are most reactive and immediately produce turbidity at room temperature on reaction with Lucas Reagent.

In the light of the above statements, choose the most appropriate answer from the options given below:

- (1) **Statement I** is correct but **Statement II** is incorrect  
 (2) **Statement I** is incorrect but **Statement II** is correct  
 (3) Both **Statement I** and **Statement II** are correct  
 (4) Both **Statement I** and **Statement II** are incorrect
4. Which of the following statement is correct for nucleophile ?  
 (1) Electron rich species are called nucleophile.  
 (2) Nucleophiles are Lewis bases.  
 (3) Nucleophile donates lone pair of electron to vacant orbital of carbon atom.  
 (4) All are correct.
5. S<sub>N</sub>1 reactions are favoured by -  
 (1) Non-polar solvents.  
 (2) Bulky groups on the carbon atom attached to the halogen atom.  
 (3) Small groups on carbon atom attached to the halogen atom.  
 (4) None of these.
6. When the concentration of alkyl halide is tripled and the concentration of OH<sup>⊖</sup> ion is reduced to half, the rate of S<sub>N</sub>2 reaction increases by:  
 (1) 3 times                      (2) 2 times                      (3) 1.5 times                      (4) 6 times
7. S<sub>N</sub>2 mechanism proceeds through intervention of  
 (1) Carbonium ion              (2) Transition state              (3) Free radical                      (4) Carbanion



9. The correct order of reactivity of following alcohols towards conc. HCl/ZnCl<sub>2</sub> is :

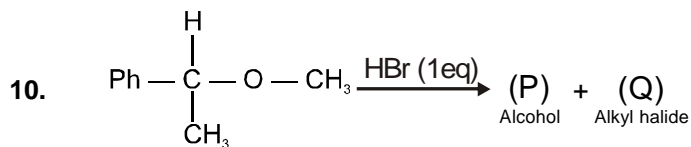


(1) I > II > III > IV

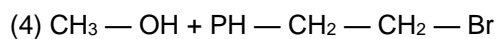
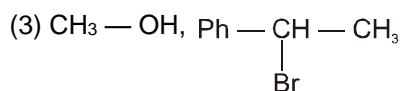
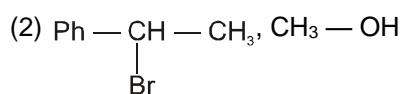
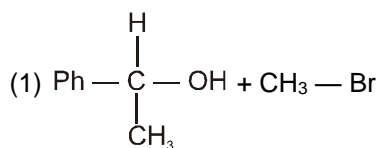
(2) I > III > II > IV

(3) IV > III > II > I

(4) IV > III > I > II



(P), (Q) respectively.



### Answer Key

1. (3)    2. (2)    3. (1)    4. (4)    5. (2)    6. (3)    7. (2)  
8. (2)    9. (3)    10. (3)