

9. Given below are two statements.

**Statement I:** The acidic strength of monosubstituted nitrophenol is higher than phenol because of electron withdrawing nitro group.

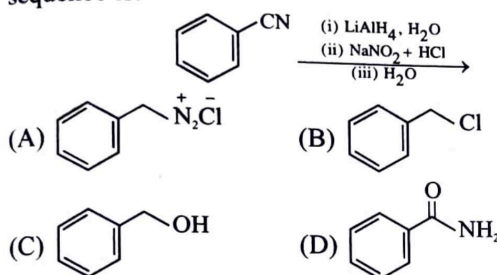
**Statement II:** *o*-Nitrophenol, *m*-nitrophenol and *p*-Nitrophenol will have same acidic strength as they have one nitro group attached to the phenolic ring.

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

- (A) Both Statement I and Statement II are incorrect.  
(B) Statement I is correct but Statement II is incorrect.  
(C) Statement I is incorrect but Statement II is correct.  
(D) Both Statement I and Statement II are correct.

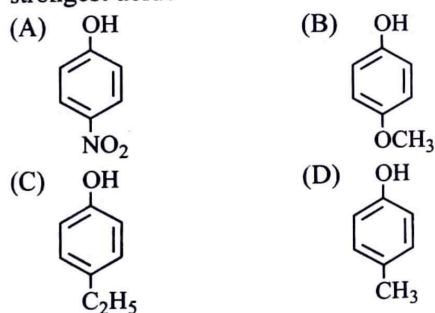
[NEET 2022]

10. The product formed from the following reaction sequence is:

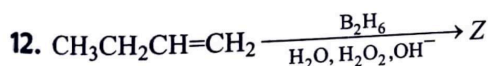


[NEET 2022]

11. Which of the following substituted phenols is the strongest acid?



[NEET Oct. 2020]



What is Z?

- (A)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$   
(B)  $\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3$   
(C)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$   
(D)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$

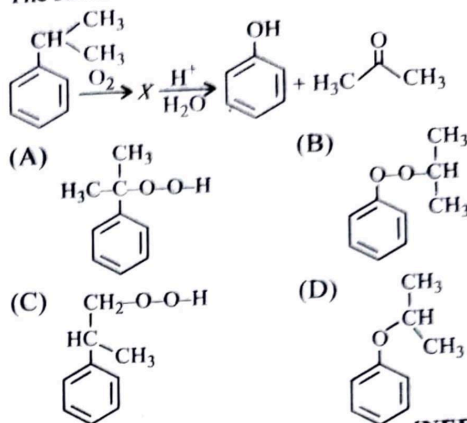
[NEET Oct. 2020]

13. Reaction between acetone and methylmagnesium chloride followed by hydrolysis will give:

- (A) secondary butyl alcohol  
(B) *tert*-butyl alcohol  
(C) isobutyl alcohol  
(D) isopropyl alcohol

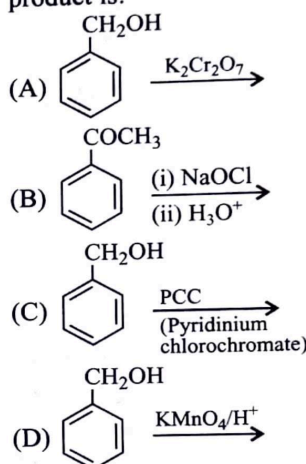
[NEET Sept. 2020]

14. The structure of intermediate 'X' in the following reaction, is:



[NEET National 2019]

15. The reaction that does not give benzoic acid as the major product is:



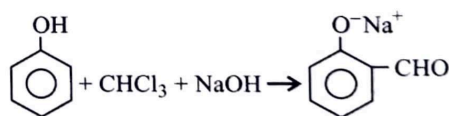
[NEET Odisha 2019]

16. When vapours of a secondary alcohol is passed over heated copper at 573 K, the product formed is:

- (A) a carboxylic acid (B) an aldehyde  
(C) a ketone (D) an alkene

[NEET Odisha 2019]

17. In the reaction



the electrophile involved is:

- (A) dichloromethyl anion ( $\text{CHCl}_2^-$ )  
(B) formyl cation ( $\text{CHO}^+$ )  
(C) dichloromethyl cation ( $\text{CHCl}_2^+$ )  
(D) dichlorocarbene ( $:\text{CCl}_2$ )

[NEET 2018]

18. Which of the following reagents would distinguish *cis*-cyclopenta-1,2-diol from the *trans*-isomer?

- (A) Ozone  
(B)  $\text{MnO}_2$   
(C) Aluminium isopropoxide  
(D) Acetone

[NEET Phase I 2016]