Alcohols, Phenols and Ethers

Q.No.1:
Phenol is heated with a solution of mixture of KBr and $KBrO_3$. The major product obtained in the above reaction is

AIEEE 2011

A. 3-Bromophenol
B. 4-Bromophenol
C. 2, 4, 6- Tribromophenol
D. 2-Bromophenol

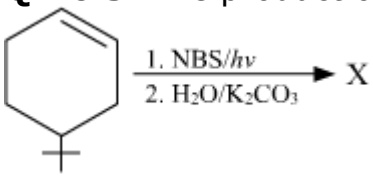
Q.No.2:
An unknown alcohol is treated with the "Lucas reagent" to determine whether the alcohol is primary, secondary or tertiary. Which alcohol reacts fastest and by what mechanism :

JEE 2013

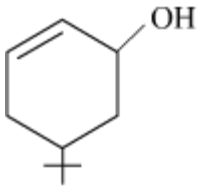
A. secondary alcohol by S_N1
B. tertiary alcohol by S_N1
C. secondary alcohol by S_N2
D. tertiary alcohol by S_N2

Q.No.3: The product of the reaction given below is:

JEE 2016



A.



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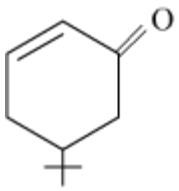

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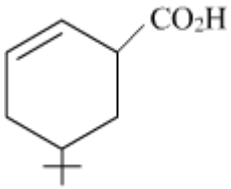
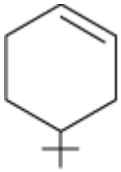
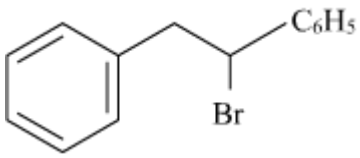


D.

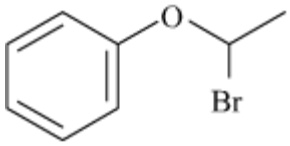


Q.No.4: Which of the following, upon treatment with tert-BuONa followed by addition of bromine water, fails to decolourize the colour of bromine **JEE 2017**

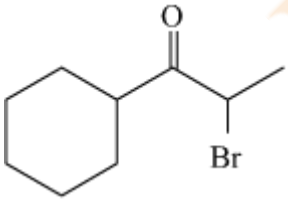
A.



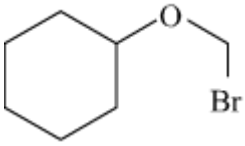
B.



C.

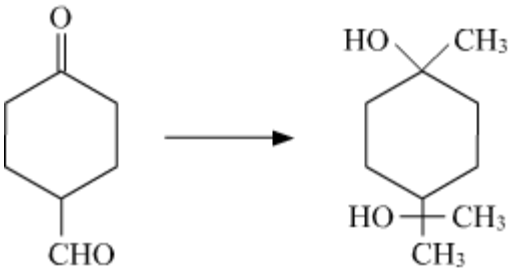


D.



Q.No.5: The correct sequence of reagents for the following conversion will be :

JEE 2017



A. CH_3MgBr, H^+/CH_3OH, $[Ag(NH_3)_2]^+OH^-$

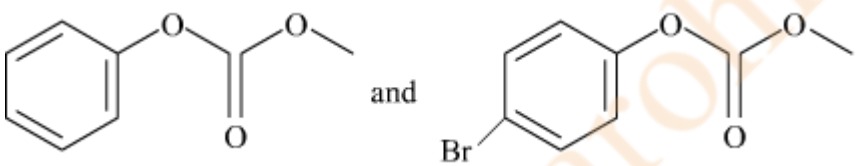
B. CH_3MgBr, $[Ag(NH_3)_2]^+OH^-$, H^+/CH_3OH

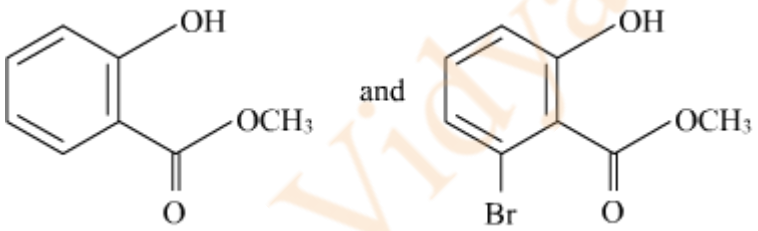
C. $[Ag(NH_3)_2]^+OH^-$, CH_3MgBr, H^+/CH_3OH

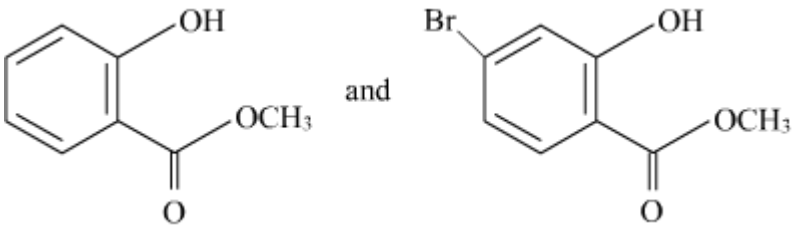
D. $[Ag(NH_3)_2]^+OH^-$, H^+/CH_3OH, CH_3MgBr

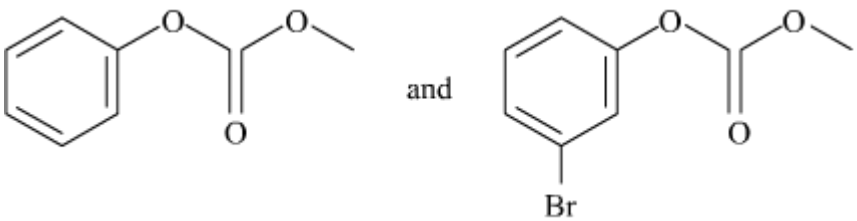
Q.No.6: Phenol reacts with methyl chloroformate in the presence of NaOH to form product A. A reacts with Br_2 to form product B. A and B are respectively :

JEE 2018

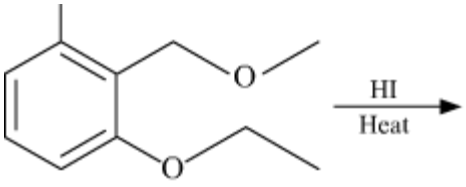
A. 

B. 

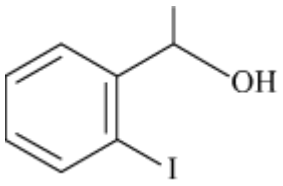
C. 

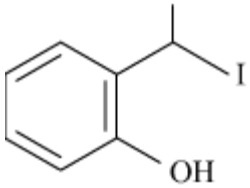
D. 

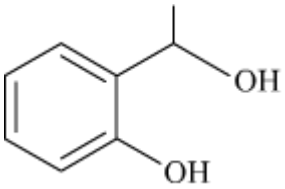
Q.No.7:
The major product formed in the following reaction is :

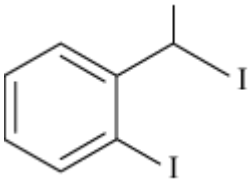


JEE 2018

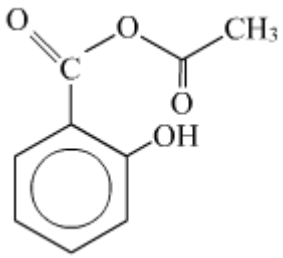
A. 

B. 

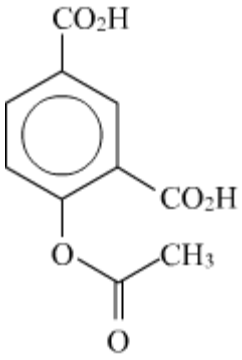
C. 

D. 

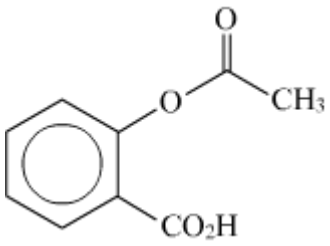
Q.No.8: Phenol on treatment with CO_2 in the presence of NaOH followed by acidification produces compound X as the major product. X on treatment with $(CH_3CO)_2O$ in the presence of catalytic amount of H_2SO_4 produces : **JEE 2018**

A. 

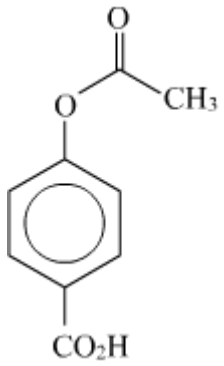
B.



C.

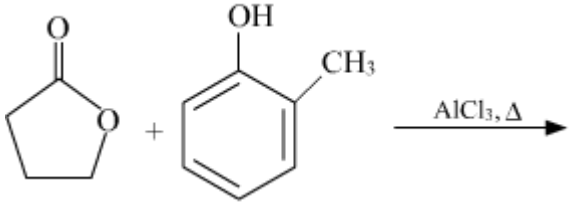


D.

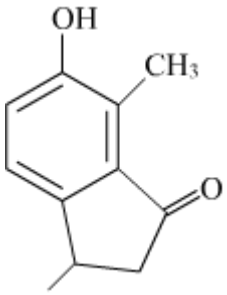


Q.No.9: The major product of the following reaction is:

JEE 2019



A.



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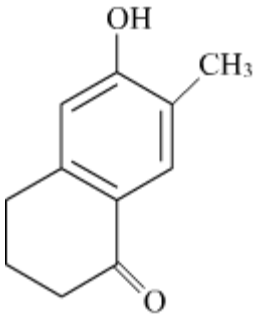
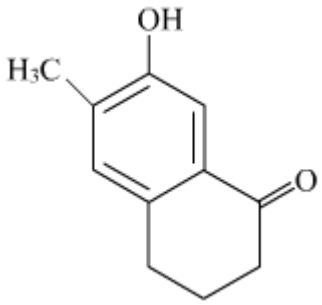
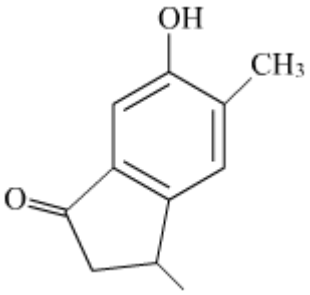


C.

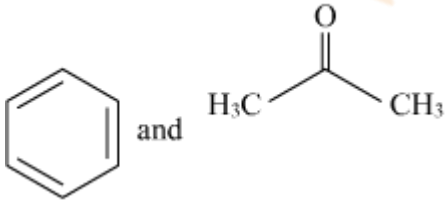


D.

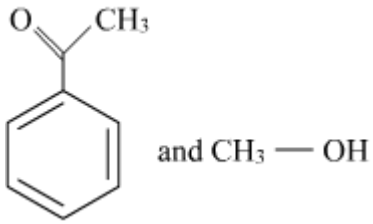


Q.No.10: The products formed in the reaction of cumene with O_2 followed by treatment with dil. HCl are: **JEE 2019**

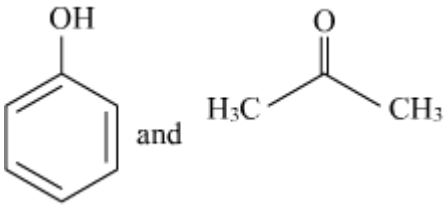
A.



B.



C.



D.