Haloalkanes and Haloarenes

Q.No.1: The major organic compound formed by the reaction of 1, 1, 1 – trichloroethane with silver powder is

A. 2 – Butyne
B. 2 – Butene
C. Acetylene
D. Ethene

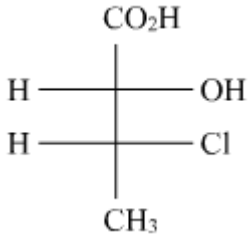
Q.No.2:
2-Chloro-2-methylpentane on reaction with sodium methoxide in methanol yields:
(a) $CH_3CH_2CH_2C(CH_3)_2OCH_3$ (b) $CH_3CH_2CH_2C(CH_3)CH_2$
(c) $CH_3CH_2CHC(CH_3)_2$

JEE 2016

A. (a) and (c)
B. (c) only
C. (a) and (b)
D. All of these

Q.No.3: The absolute configuration of

JEE 2016



is

A. (2S, 3R)
B. (2S, 3S)
C. (2R, 3R)
D. (2R, 3S)

Q.No.4: The reaction of propene with HOCl ($Cl_2 + H_2O$) proceeds through the intermediate: **JEE 2016**

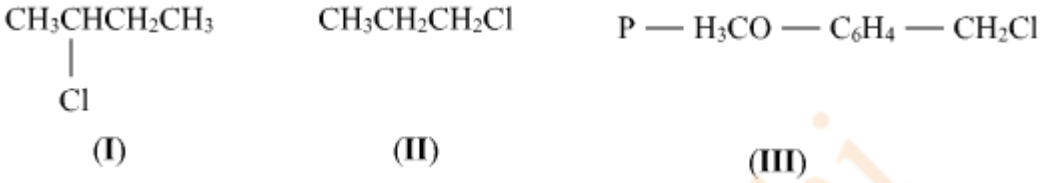
A. $CH_3 - CH^+ - CH_2 - Cl$

B. $CH_3 - CH(OH) - CH_2^+$

C. $CH_3 - CHCl - CH_2^+$

D. $CH_3 - CH^+ - CH_2 - OH$

Q.No.5: The increasing order of the reactivity of the following halides for the S_N1 reaction is : **JEE 2017**



(I) (II) (III)

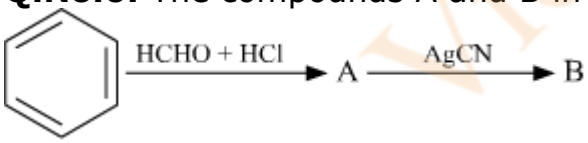
A. (II) < (I) < (III)

B. (I) < (III) < (II)

C. (II) < (III) < (I)

D. (III) < (II) < (I)

Q.No.6: The compounds A and B in the following reaction are, respectively: **JEE 2019**



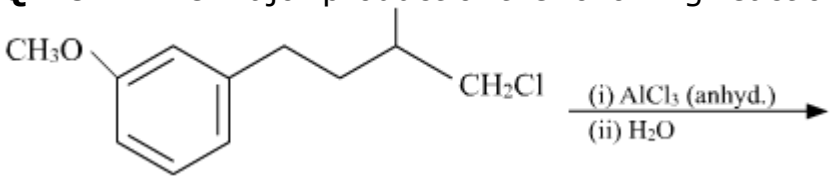
A. A = Benzyl alcohol, B = Benzyl cyanide

B. A = Benzyl chloride, B = Benzyl cyanide

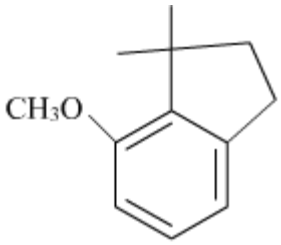
C. A = Benzyl alcohol, B = Benzyl isocyanide

D. A = Benzyl chloride, B = Benzyl isocyanide

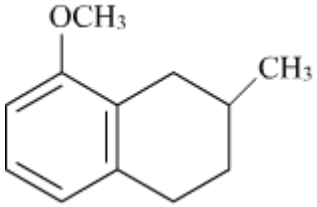
Q.No.7: The major product of the following reaction is: **JEE 2019**



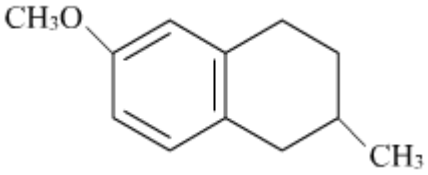
A.



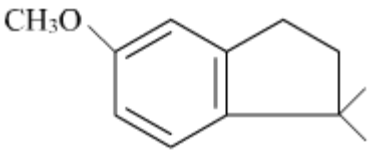
B.



C.

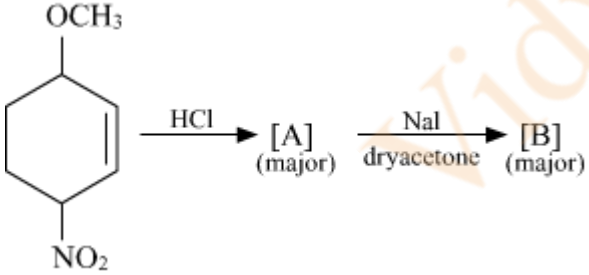


D.

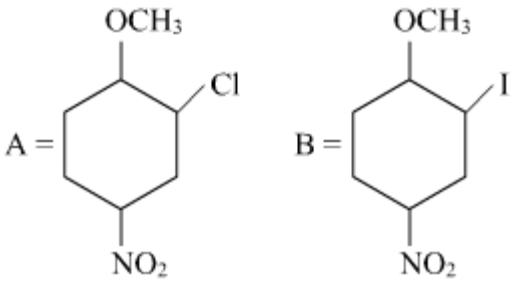


Q.No.8: Identify A and B in the chemical reaction.

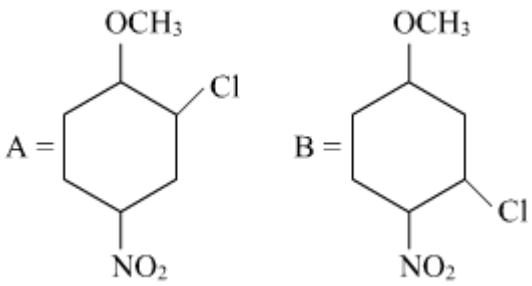
JEE 2021



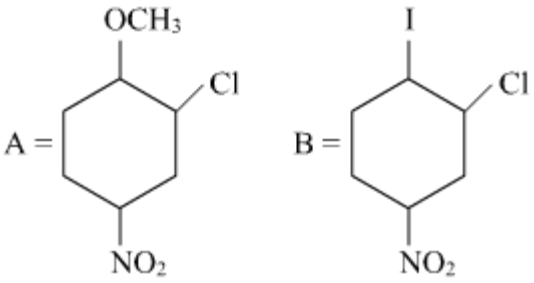
A.



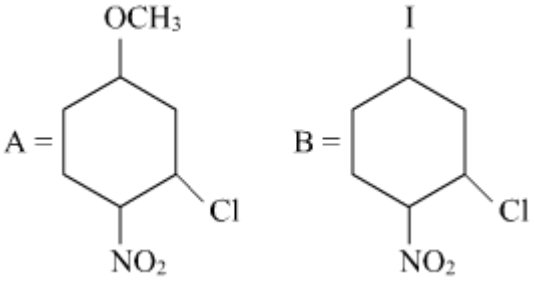
B.



C.

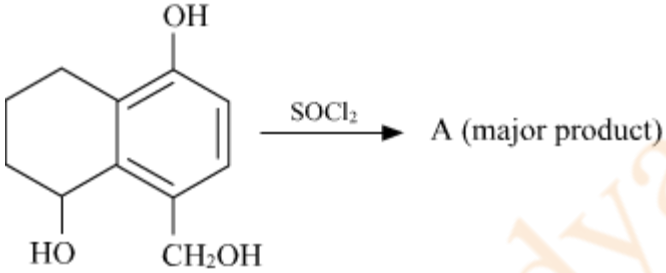


D.

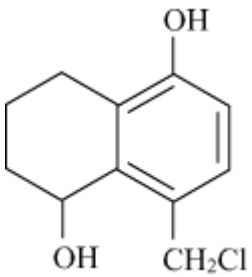


Q.No.9: Identify A in the given reaction,

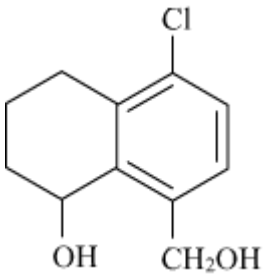
JEE 2021



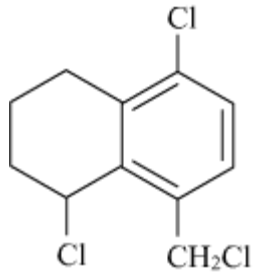
A.



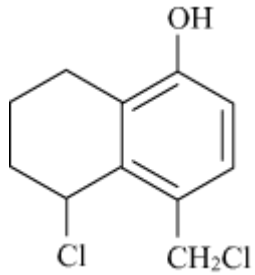
B.



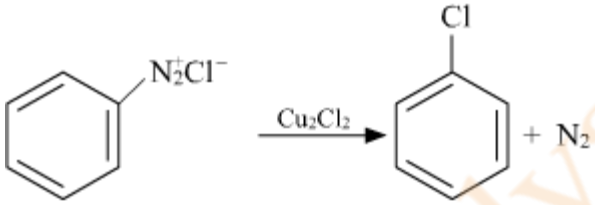
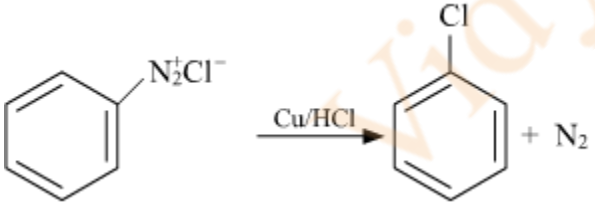
C.



D.



Q.No.10: Match List-I with List-II

List-I	**List-II**
a) 	(i) Wurtz reaction
b) 	(ii) Sandmeyer reaction
c) $2\,CH_3\,CH_2\,Cl \;+\; 2\,Na \xrightarrow{\text{Ether}} C_2H_5 - C_2H_5 \;+\; 2\,NaCl$	(iii) Fittig reaction
d) $2C_6H_5\,Cl \;+\; 2\,Na \xrightarrow{\text{Ether}} C_6H_5 - C_6H_5 \;+\; 2\,NaCl$	(iv) Gatterman reaction

Choose the correct answer from the options given below **JEE 2021**

A. (a)-(iii); (b)-(iv); (c)-(i); (d)-(ii)

B. (a)-(ii); (b)-(iv); (c)-(i); (d)-(iii)

C. (a)-(iii); (b)-(i); (c)-(iv); (d)-(ii)

D. (a)-(ii); (b)-(i); (c)-(iv); (d)-(iii)