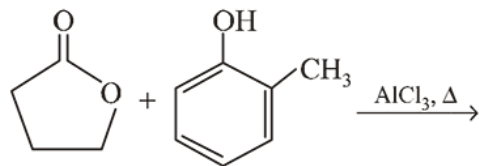


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Aromatic Compounds - Questions

Q1

The major product of the following reaction is:

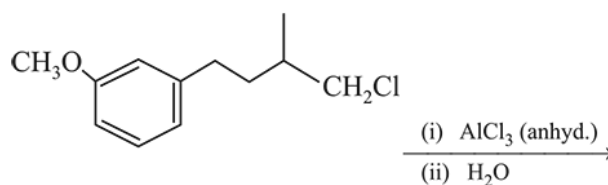


- (1)
- (2)
- (3)
- (4)

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Q2

The major product of the following reaction is:



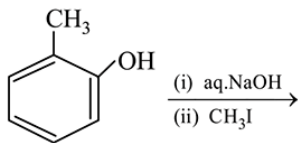
- (1)
- (2)
- (3)
- (4)

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Q3

Aromatic Compounds

The major product of the following reaction is:

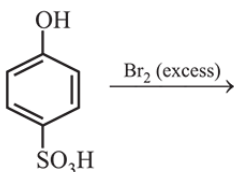


- (1)
- (2)
- (3)
- (4)

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Q4

The major product of the following reaction is :



- (1)
- (2)
- (3)
- (4)

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Q5

Which of the following compounds will produce a precipitate with AgNO₃?

- (1)
- (2)
- (3)
- (4)

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Q6

Among the following four aromatic compounds, which one will have the lowest melting point?

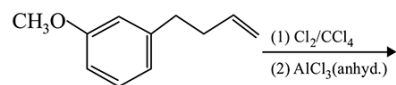
- (1)
- (2)
- (3)
- (4)

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Q7

Aromatic Compounds

The major product of the following reaction is:

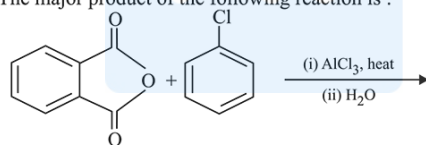


- (1)
- (2)
- (3)
- (4)

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Q8

The major product of the following reaction is :



- (1)
- (2)
- (3)
- (4)

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Q9

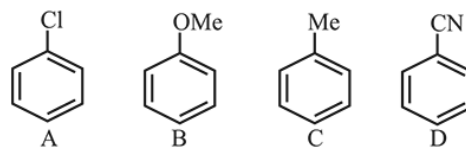
Polysubstitution is a major drawback in :

- (1) Friedel Craft's alkylation
- (2) Reimer Tiemann reaction
- (3) Acetylation of aniline
- (4) Friedel Craft's acylation

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Q10

The increasing order of reactivity of the following compounds towards aromatic electrophilic substitution reaction is:

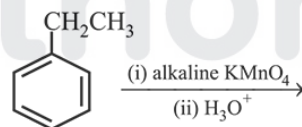


- (1) $\text{D} < \text{A} < \text{C} < \text{B}$
- (2) $\text{B} < \text{C} < \text{A} < \text{D}$
- (3) $\text{A} < \text{B} < \text{C} < \text{D}$
- (4) $\text{D} < \text{B} < \text{A} < \text{C}$

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Q11

The major product of the following reaction is:



- (1)
- (2)
- (3)
- (4)

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Q12

Aromatic Compounds

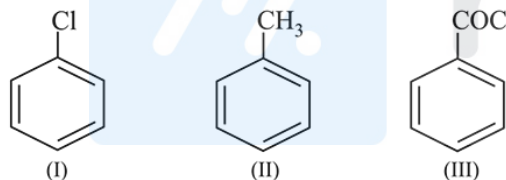
p-Hydroxybenzophenone upon reaction with bromine in carbon tetrachloride gives:

- (1)
- (2)
- (3)
- (4)

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Q13

The increasing order of the reactivity of the following compounds towards electrophilic aromatic substitution reactions is :



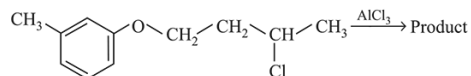
- (1) II < I < III (2) III < II < I
 (3) III < I < II (4) I < III < II

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Q14

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The major product obtained in the given reaction is :W



- (1)
- (2)
- (3)
- (4)

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Q15

The major products of the following reaction are :

-
- (1)
- and Methanol
- (2)
- and Methanol
- (3)
- and Formic acid
- (4)
- and Formic acid

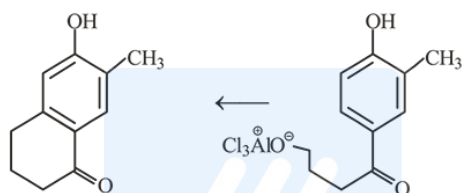
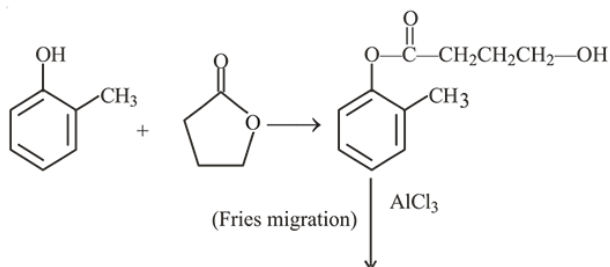
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Aromatic Compounds - Answers

Q1

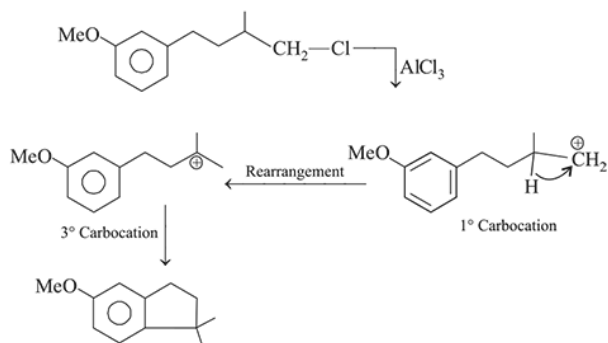
(3) Reaction involved:



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Q2

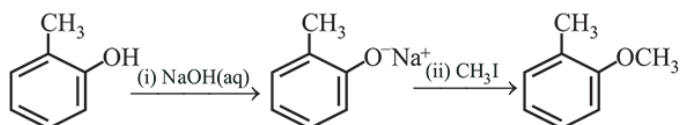
(4)



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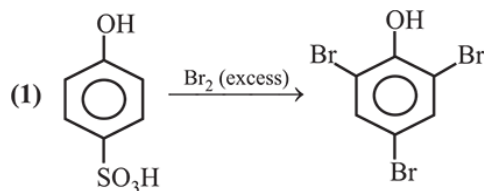
Q3

(2) Reaction involved:



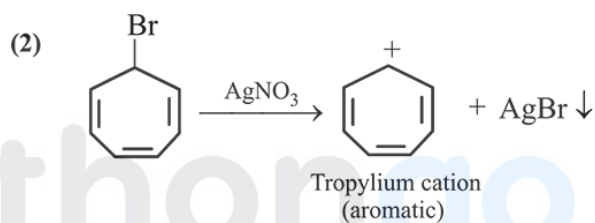
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Q4



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Q5



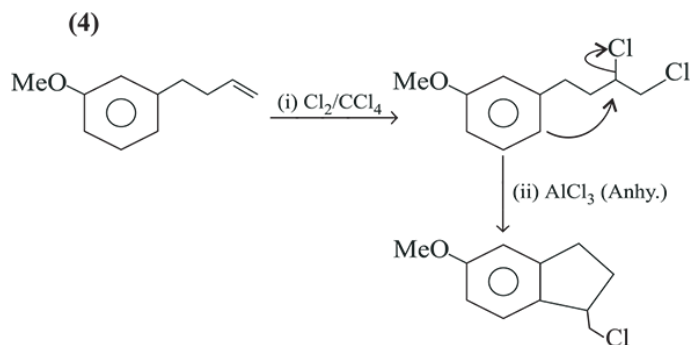
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Q6

(4) The force of attraction between the molecules affects the melting point of a compound. Polarity increases the intermolecular force of attraction and as a result increases the melting point.

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Q7

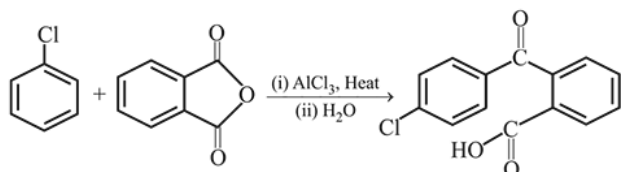


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Q8

Aromatic Compounds

(4)



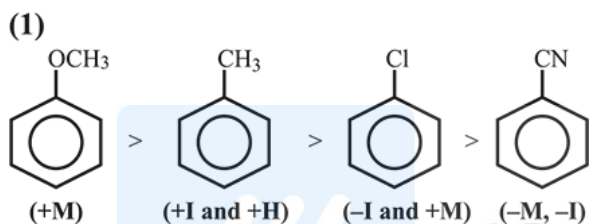
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Q9

- (1) Polysubstitution is a major drawback in Friedel Craft's alkylation because the introduced alkyl group is activating and gives polyalkylated product.

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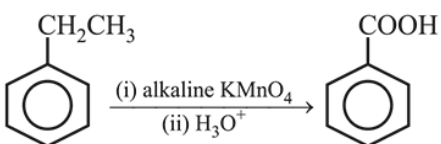
Q10



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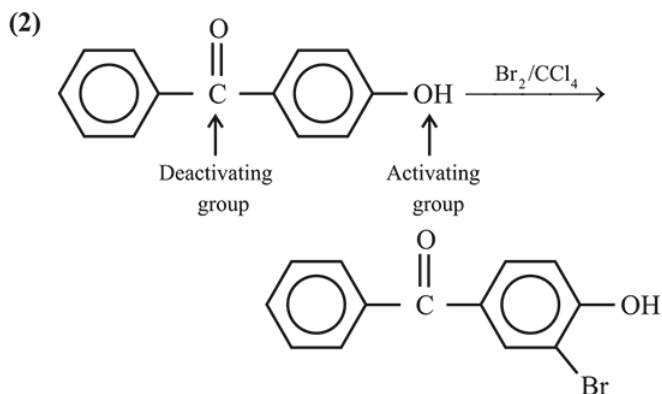
Q11

- (1) Alkaline KMnO_4 converts $\text{C}_6\text{H}_5\text{R}$ with a benzylic hydrogen into benzoic acid.



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Q12

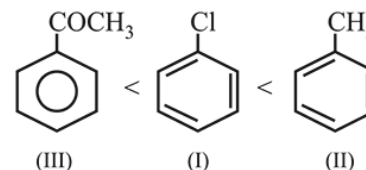


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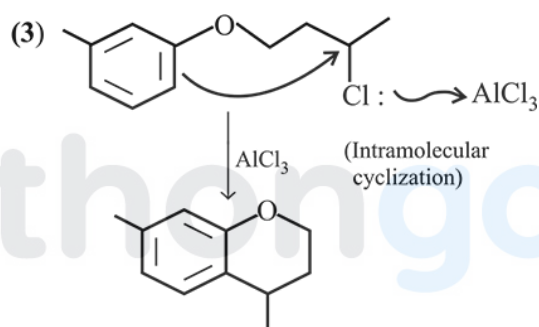
Q13

- (3) CH_3 group when bonded to benzene increases the electron density of benzene ring due to +I and hyper conjugation effects. $-\text{Cl}$ group decreases the electron density of benzene ring due to $-I$ effect, and $-\text{COCH}_3$ group strongly decreases the electron density of benzene ring due to $-I$ and $-R$ effects. Therefore, correct increasing order of the given compounds towards electrophilic aromatic substitution is



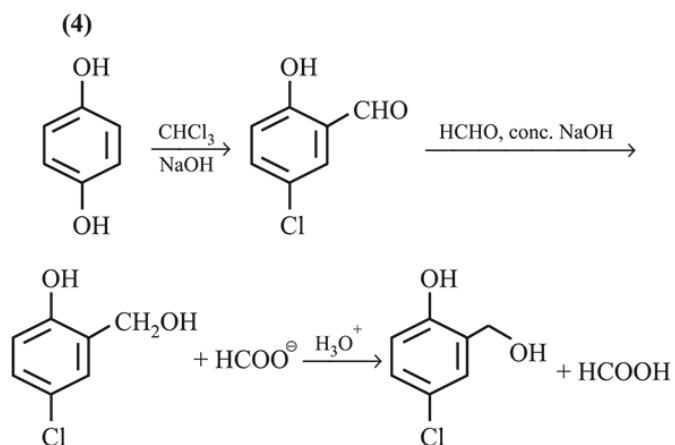
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Q14



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Q15



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