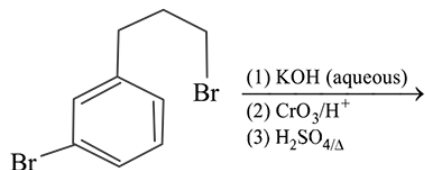


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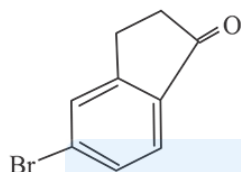
Alcohols, Phenols and Ethers - Questions

Q1

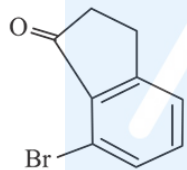
The major product of the following reaction is:



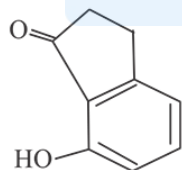
(1)



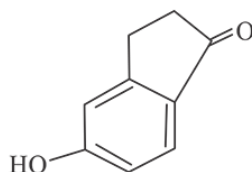
(2)



(3)



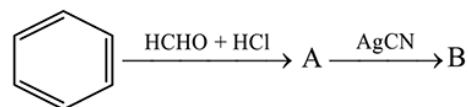
(4)



9 Jan Morning

Q2

The compounds A and B in the following reaction are, respectively :

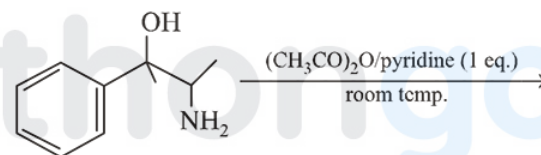


- (1) A = Benzyl alcohol, B = Benzyl cyanide
- (2) A = Benzyl chloride, B = Benzyl cyanide
- (3) A = Benzyl alcohol, B = Benzyl isocyanide
- (4) A = Benzyl chloride, B = Benzyl isocyanide

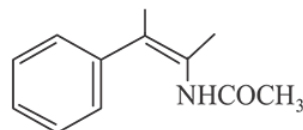
9 Jan Morning

Q3

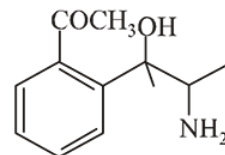
The major product obtained in the following reaction is:



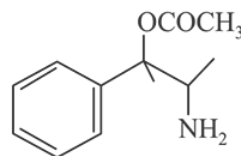
(1)



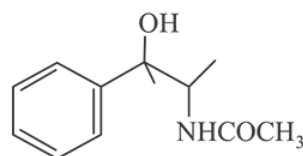
(2)



(3)



(4)

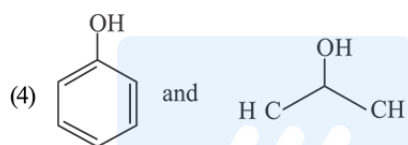
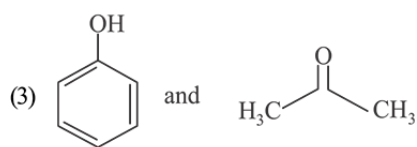
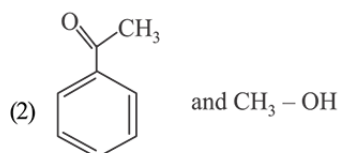
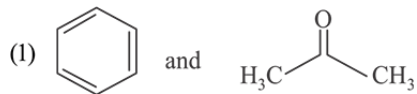


9 Jan Evening

Alcohols, Phenols and Ethers

Q4

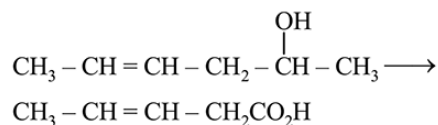
The products formed in the reaction of cumene with O_2 followed by treatment with dil. HCl are:



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Q5

Which is the most suitable reagent for the following transformation?



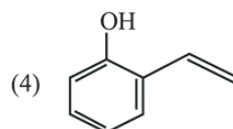
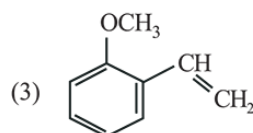
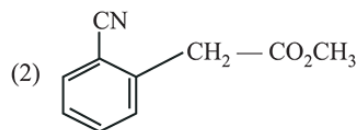
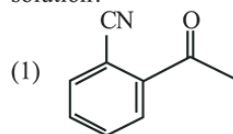
- (1) Tollen's reagent (2) $I_2/NaOH$
 (3) CrO_2Cl_2/CS_2 (4) alkaline $KMnO_4$

10 Jan Evening

Q6

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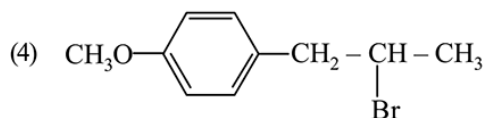
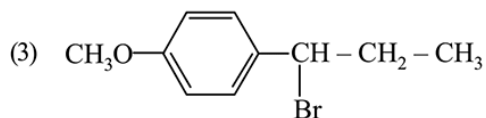
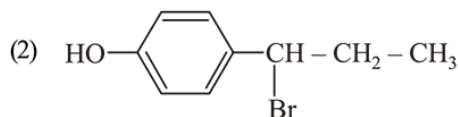
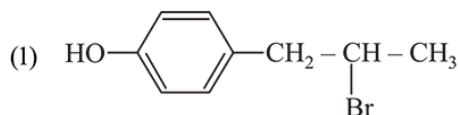
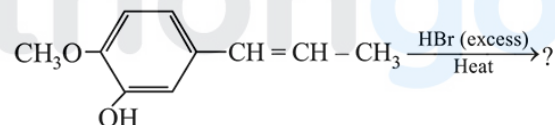
Which of the following compounds reacts with ethylmagnesium bromide and also decolourizes bromine water solution?



11 Jan Evening

Q7

The major product in the following conversion is :

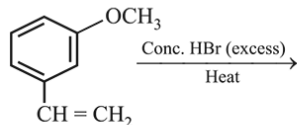


12 Jan Evening

Q8

Alcohols, Phenols and Ethers

The major product of the following reaction is :



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

8 April Morning

Q9

The organic compound that gives following qualitative analysis is:

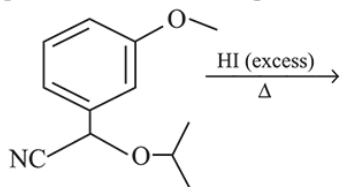
- | Test | Inference |
|----------------------------|-----------------|
| (1) Dil. HCl | Insoluble |
| (2) NaOH solution | soluble |
| (3) Br ₂ /water | Decolourization |

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

9 April Morning

Q10

The major product of the following reaction is:



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

10 April Morning

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Q11

What will be the major product when m-cresol is reacted with propargyl bromide ($\text{HC} \equiv \text{C} - \text{CH}_2\text{Br}$) in presence of K_2CO_3 in acetone ?

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

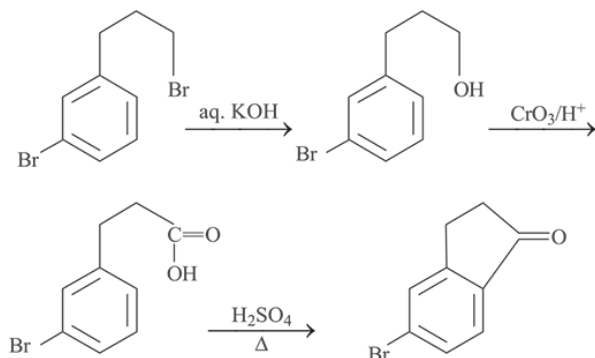
12 April Evening

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Alcohols, Phenols and Ethers - Answers

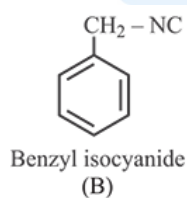
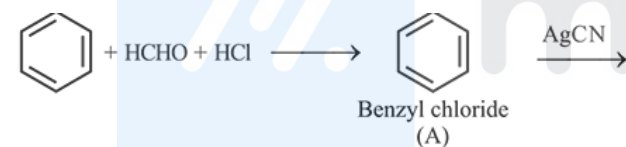
Q1

(1) For the given reaction condition, the major product is:

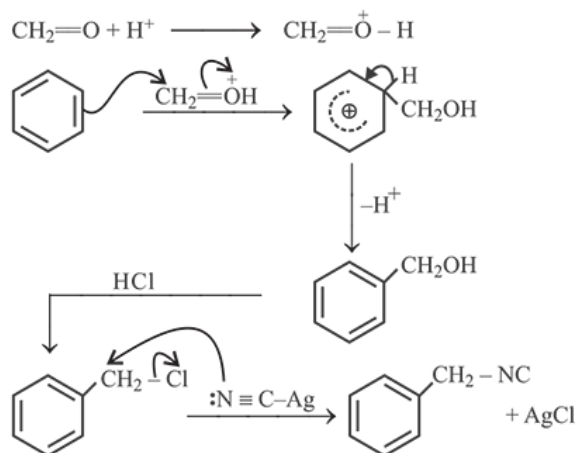


9 Jan Morning

Q2



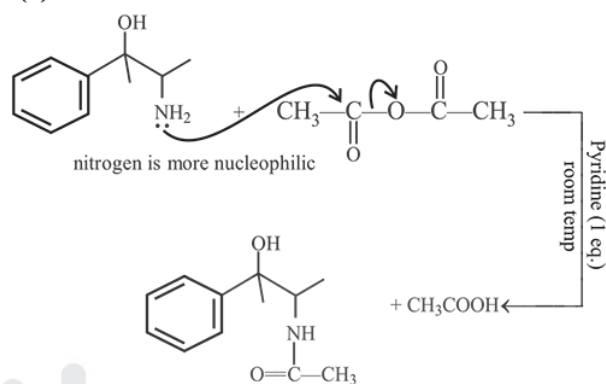
Mechanism:

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9 Jan Morning

Q3

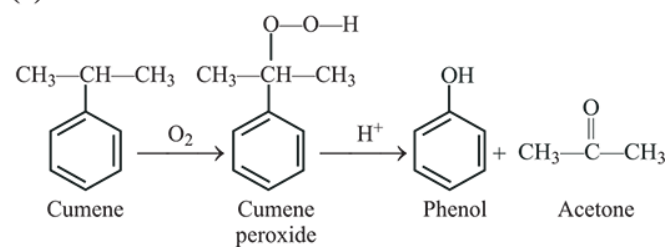
(4) Reaction involved:



9 Jan Evening

Q4

(3) Reaction involved:

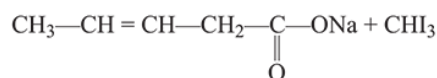
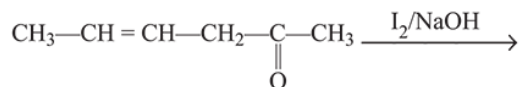
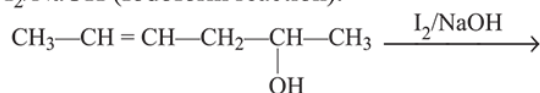


9 Jan Evening

Q5

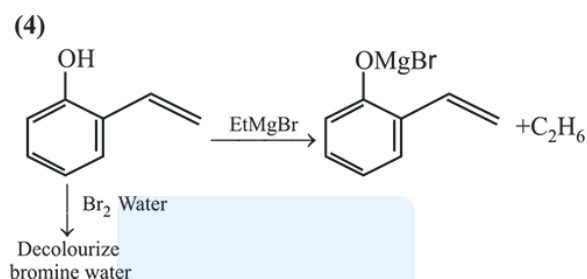
Alcohols, Phenols and Ethers

- (2) The most suitable reagent for the given reaction is $I_2/NaOH$ (Iodoform reaction).



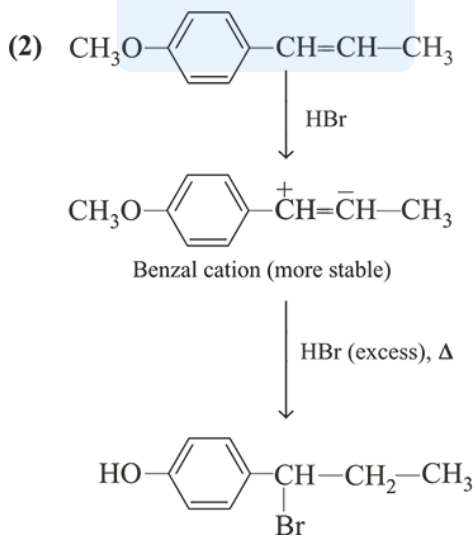
10 Jan Evening

Q6



11 Jan Evening

Q7

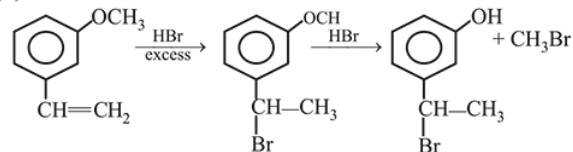


12 Jan Evening

Q8

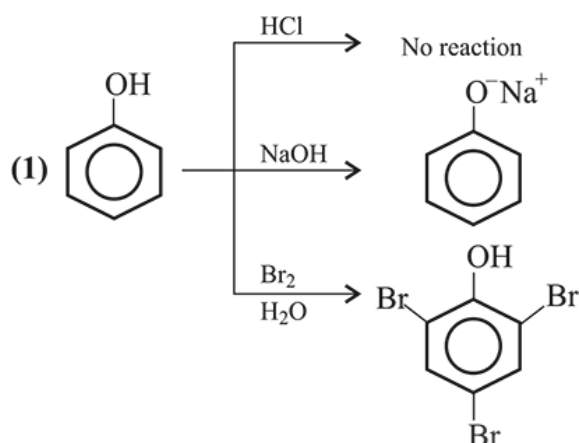
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(2)



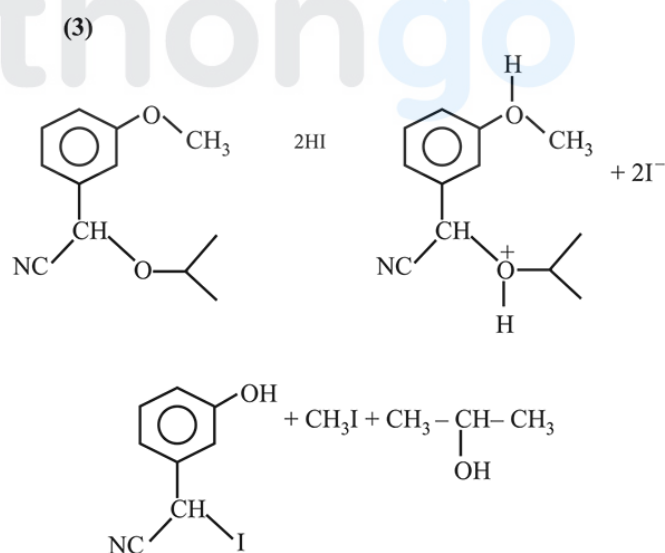
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Q9



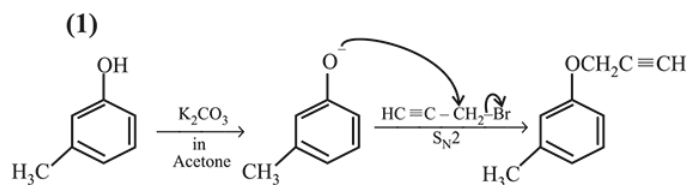
9 April Morning

Q10



10 April Morning

Q11



12 April Evening