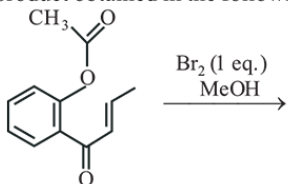


JEE Mains 2019 Chapter wise Question Bank

Hydrocarbons - Questions

Q1

The major product obtained in the following conversion is:

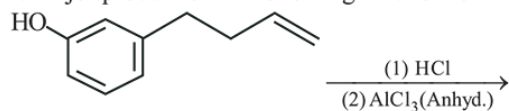


- (1)
- (2)
- (3)
- (4)

11 Jan Evening

Q2

The major product of the following reaction is :

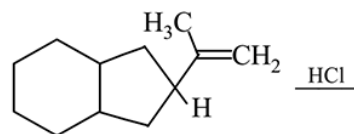


- (1)
- (2)
- (3)
- (4)

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Q3

The major product of the following reaction is :



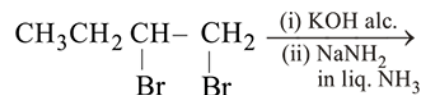
- (1)
- (2)
- (3)
- (4)

12 Jan Evening

Q4

Hydrocarbons

The major product of the following reaction is :



- (1) $\text{CH}_3\text{CH}=\text{C}=\text{CH}_2$
- (2) $\text{CH}_3\text{CH}_2\underset{\text{NH}_2}{\text{CH}}-\underset{\text{NH}_2}{\text{CH}_2}$
- (3) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{NH}_2$
- (4) $\text{CH}_3\text{CH}_2\text{C}\equiv\text{CH}$

12 Jan Evening

Q5

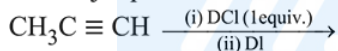
Which one of the following alkenes when treated with HCl yields majorly an anti Markovnikov product ?

- (1) $\text{CH}_3\text{O}-\text{CH}=\text{CH}_2$
- (2) $\text{Cl}-\text{CH}=\text{CH}_2$
- (3) $\text{H}_2\text{N}-\text{CH}=\text{CH}_2$
- (4) $\text{F}_3\text{C}-\text{CH}=\text{CH}_2$

8 April Evening

Q6

The major product of the following reaction is:

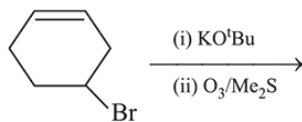


- (1) $\text{CH}_3\text{CD(I)CHD(Cl)}$
- (2) $\text{CH}_3\text{CD(Cl)CHD(I)}$
- (3) $\text{CH}_3\text{CD}_2\text{CH(Cl)(I)}$
- (4) $\text{CH}_3\text{C(I)(Cl)CHD}_2$

9 April Morning

Q7

The major product(s) obtained in the following reaction is/are :



- (1) $\text{OHC}-\text{CH}_2-\text{CH}_2-\text{CHO}$ and $\text{OHC}-\text{CHO}$
- (2) $\text{OHC}-\text{CH}_2-\text{CH}_2-\text{CH}=\text{CH}-\text{CHO}$
- (3) $\text{OHC}-\text{CH}_2-\text{CHO}$
- (4) $\text{OHC}-\text{CH}_2-\text{CH}(\text{O}^t\text{Bu})-\text{CH}_2-\text{CHO}$

12 April Morning

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Q8

The major product of the following addition reaction is



- (1) $\text{H}_3\text{C}-\underset{\text{OH}}{\text{CH}}-\underset{\text{Cl}}{\text{CH}_2}$
- (2) $\text{H}_3\text{C}-\underset{\text{OH}}{\text{CH}}-\underset{\text{Cl}}{\text{CH}_2}$
- (3) $\text{H}_3\text{C}-\text{C}_2\text{H}_4\text{O}$
- (4) $\text{H}_3\text{C}-\text{C}(=\text{O})-\text{CH}_3$

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Q9

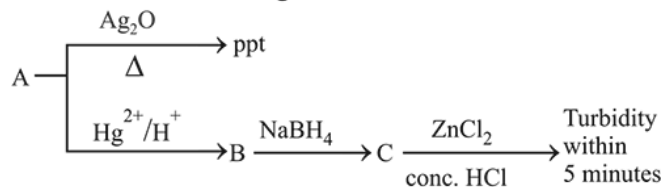
But 2-ene on reaction with alkaline KMnO_4 at elevated temperature followed by acidification will give :

- (1) $\text{CH}_3-\underset{\text{OH}}{\text{CH}}-\underset{\text{OH}}{\text{CH}}-\text{CH}_3$
- (2) one molecule of CH_3CHO and one molecule of CH_3COOH
- (3) 2 molecules of CH_3COOH
- (4) 2 molecules of CH_3CHO

12 April Morning

Q10

Consider the following reaction :



'A' is:

- (1) $\text{CH}\equiv\text{CH}$
- (2) $\text{CH}_3-\text{C}\equiv\text{C}-\text{CH}_3$
- (3) $\text{CH}_3-\text{C}\equiv\text{CH}$
- (4) $\text{CH}_2=\text{CH}_2$

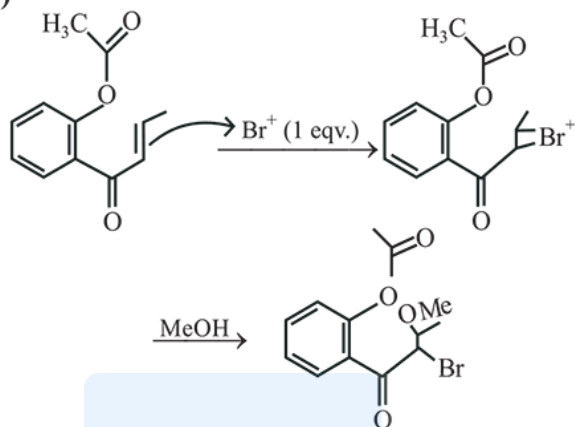
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Hydrocarbons - Questions

Q1

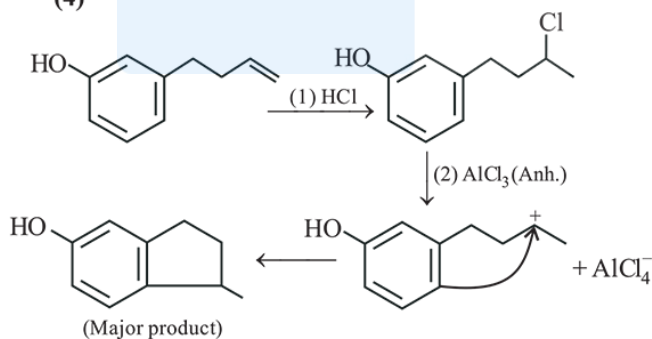
(1)



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Q2

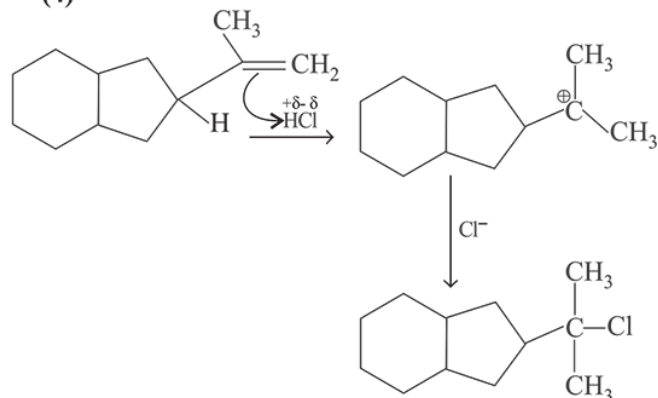
(4)



11 Jan Evening

Q3

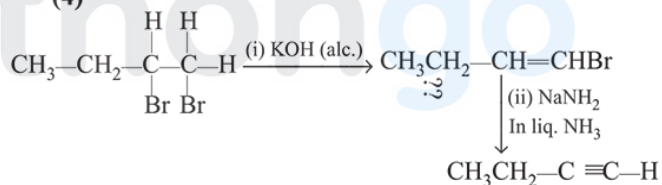
(4)



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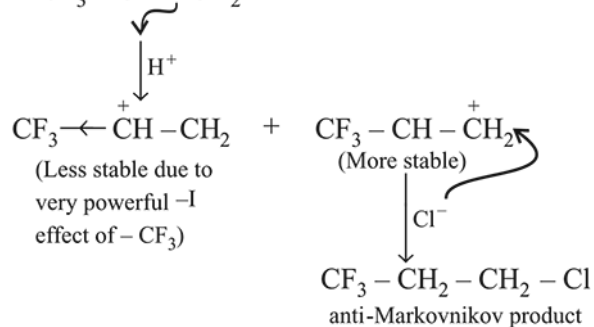
Q4

(4)



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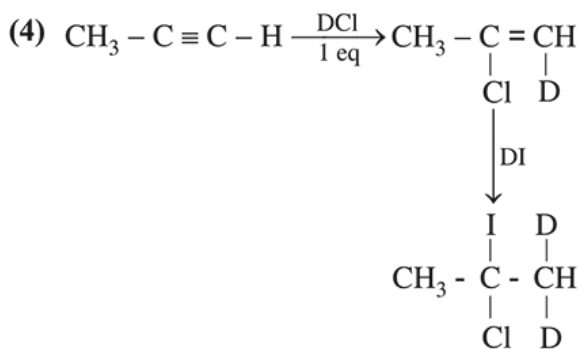
Q5

(4) $\text{CF}_3-\text{CH}=\text{CH}_2$ 

8 April Evening

Q6

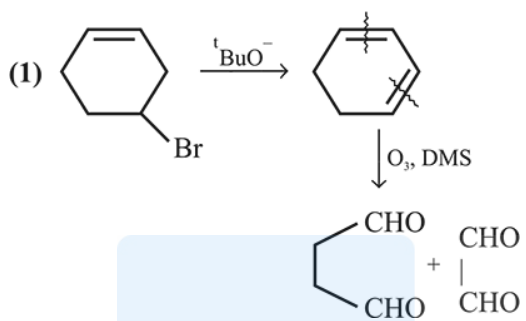
Hydrocarbons



Both additions follow Markovnikov's rule.

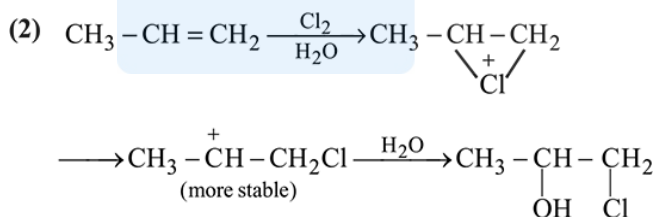
9 April Morning

Q7



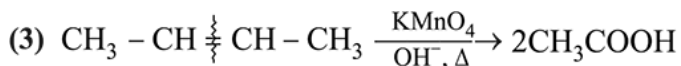
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Q8



12 April Morning

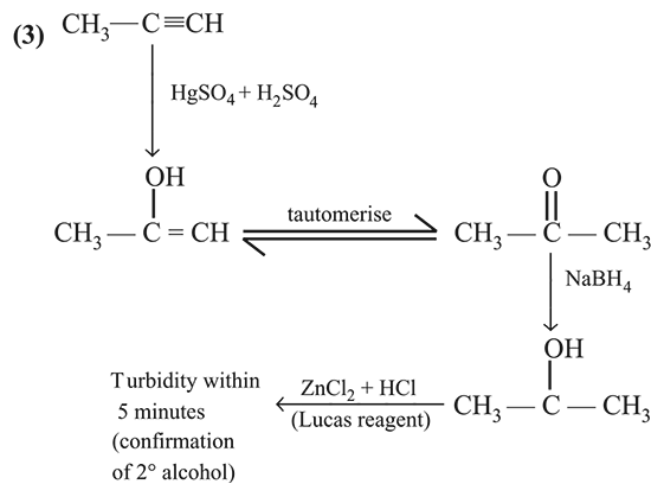
Q9



12 April Morning

Q10

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12 April Evening