DPP-05

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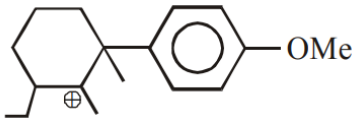
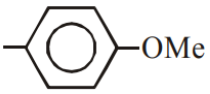
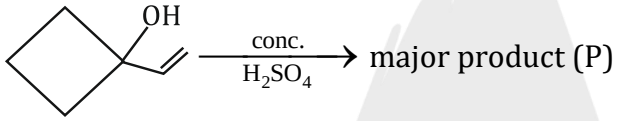
1. Identify group migrate during carbocation rearrangement in following compound and give major product with nucleophile?

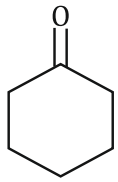


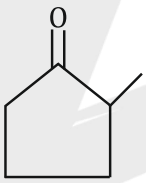
(A) Me (B) Et (C) H (D) 

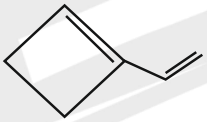
Ans. (A)

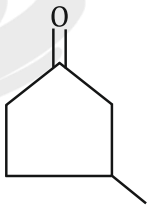
2. 

In the given Reaction major product (P) will be :-

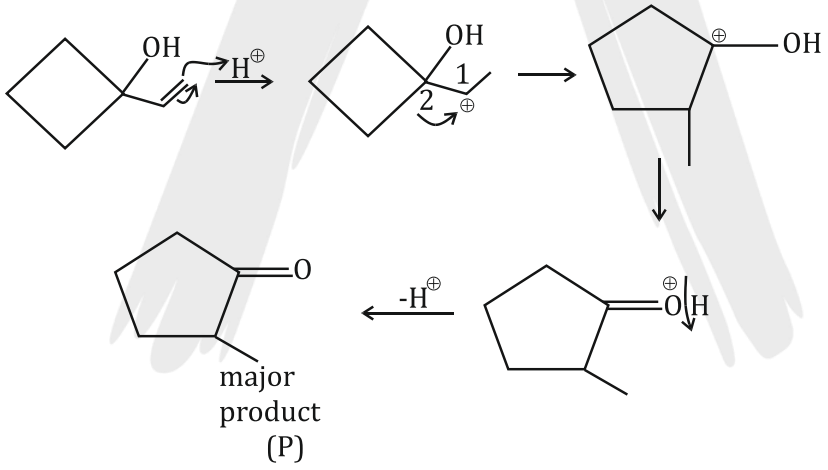
(A) 

(B) 

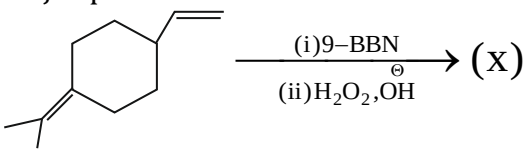
(C) 

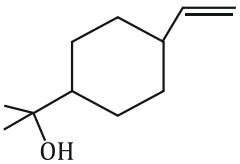
(D) 

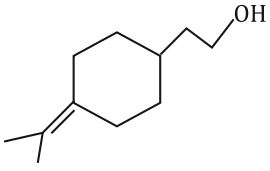
Ans. (B)

Sol. 

3. Major product will be



(A) 

(B) 

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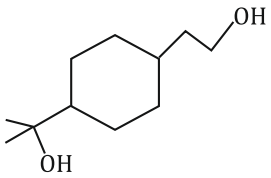
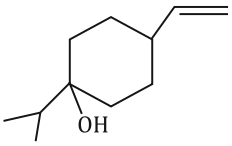
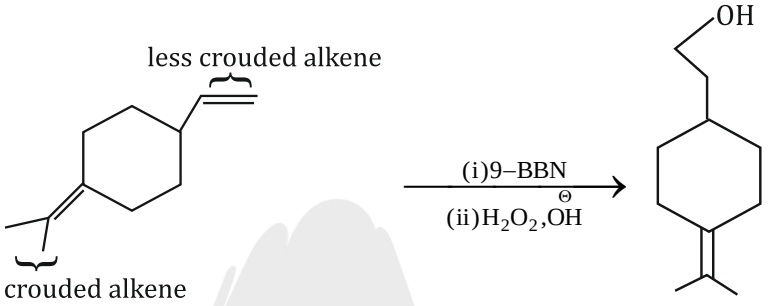
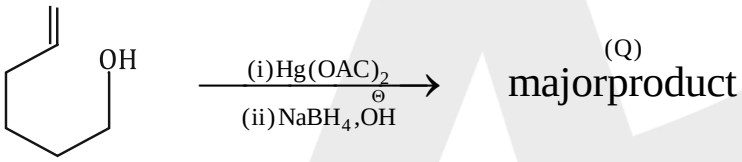
(C) 

(D) 

Ans. (B)

Sol. 

4. 

Which of the following statement is/are correct

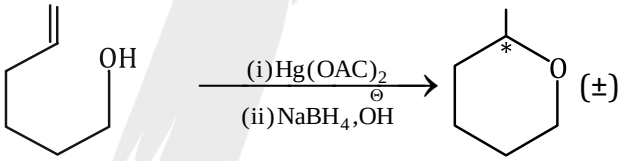
(A) (Q) have cyclic ether.

(B) (Q) is optically inactive compound.

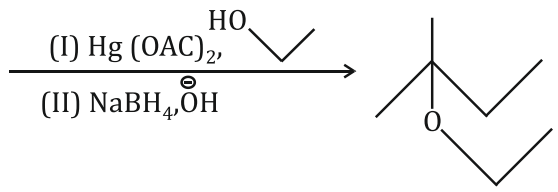
(C) (Q) have one meso isomer.

(D) (Q) have two isomers which ore optically active.

Ans. (A),(D)

Sol. 

5. Total number of possible alkenes for the given reaction.

Alkenes 

Ans. (2)

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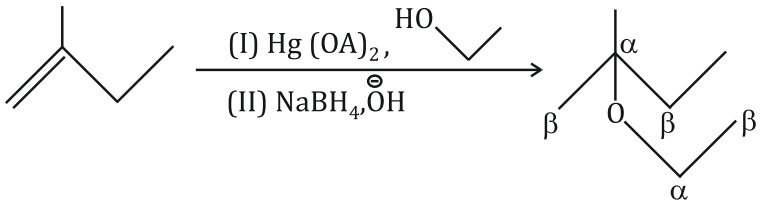
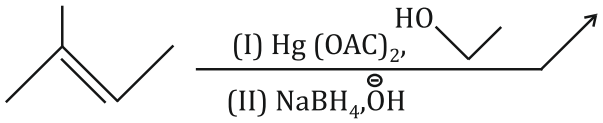
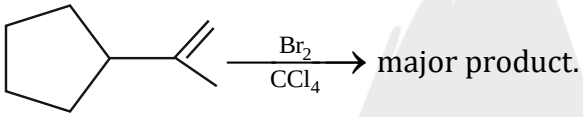
(1) 

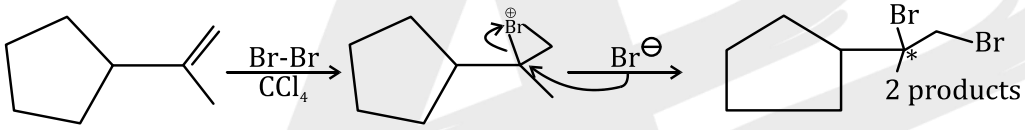
Sol.

(2) 

6. In the given reaction total number of (non-classical carbocation) NCC is equal to (P) and total number of product is (Q), then find value of (P) + (Q) with be



Ans. (4)

Sol. 

So, (P) = 2 NCC (2NCC)

(Q) = 2 product → P + Q = 2 + 2 = (4)

7. In the given Reaction sequences

$CH_3—CH=CH—CH_3 \xrightarrow[3(CH_3—COOH)_3]{BD_3—THF} (P) \xrightarrow{3\ (NH_2—Cl)} (Q)$

$(P) \rightarrow (R)$

(Q) and (R), respectively are

(A) $CH_3—CH_2—\underset{\displaystyle NH_2}{\underset{|}{CH}}—CH_3$, $CH_3—CH_2—CH_2—CH_3$

(B) $CH_3—\underset{\displaystyle D}{\underset{|}{CH}}—\underset{\displaystyle NH_2}{\underset{|}{CH}}—CH_3$, $CH_3—\underset{\displaystyle D}{\underset{|}{CH}}—CH_2—CH_3$

(C) $CH_3—\underset{\displaystyle D}{\underset{|}{CH}}—\underset{\displaystyle Cl}{\underset{|}{CH}}—CH_3$, $CH_3—\underset{\displaystyle D}{\underset{|}{CH}}—\underset{\displaystyle CH_3}{\underset{|}{CH}}—CH_3$

(D) $CH_3—\underset{\displaystyle NH_2}{\underset{|}{CH}}—\underset{\displaystyle Cl}{\underset{|}{CH}}—CH_3$, $CH_3—\underset{\displaystyle D}{\underset{|}{CH}}—CH_2—CH_3$

Ans. (B)

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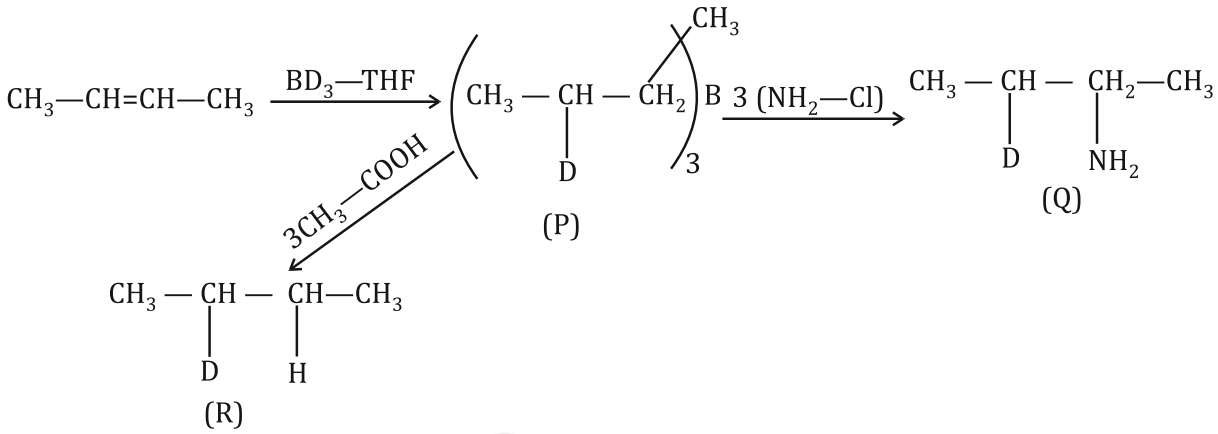
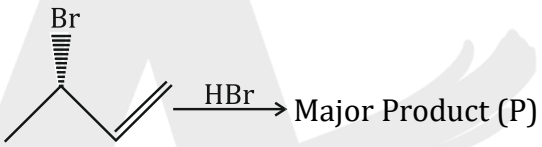
Sol.

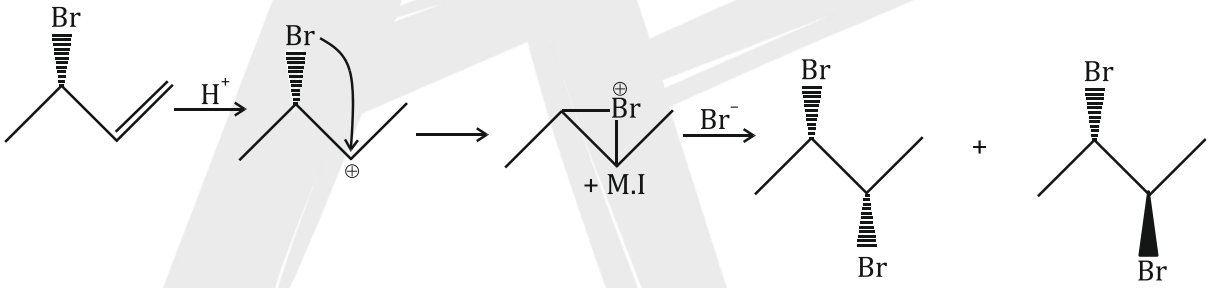


8. Total number of possible products are formed in the given reaction is



Ans. (2)

Sol.



(Total number of Possible Product are Cis and Trans)