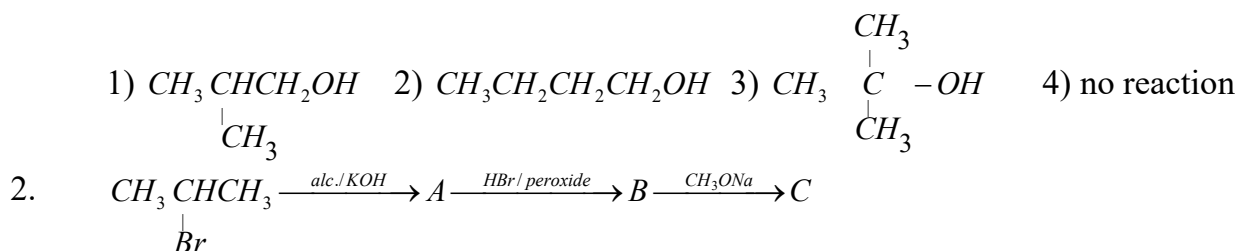
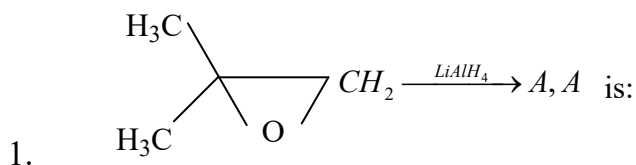


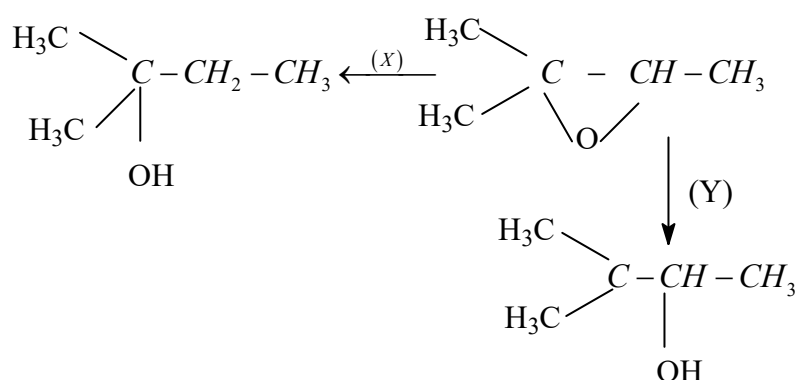
## ETHERS

**DPP**



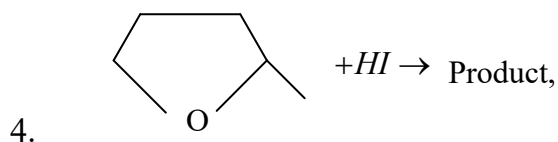
In the above reaction sequence, the final product is:

- |                      |                     |
|----------------------|---------------------|
| 1) diethyl ether     | 2) 1-methoxypropane |
| 3) isopropyl alcohol | 4) propylene glycol |

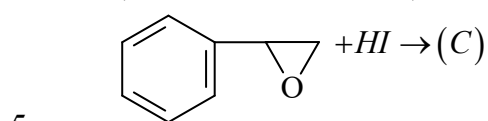
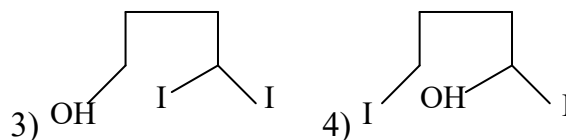
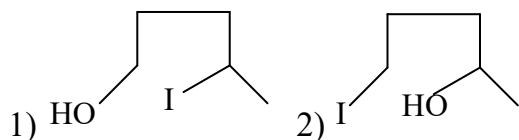


(X) and (Y) are respectively:

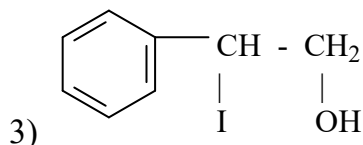
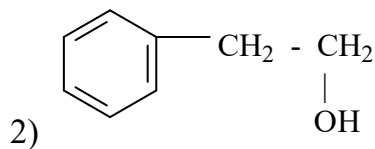
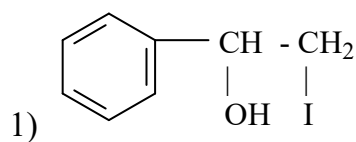
- 1) LiAlH<sub>4</sub> and NaBH<sub>4</sub>  
2) LiAlH<sub>4</sub>/AlCl<sub>3</sub> and LiAlH<sub>4</sub>  
3) LiAlH<sub>4</sub> and LiAlH<sub>4</sub> / Al Cl<sub>3</sub>  
4) H<sub>2</sub>/Ni and H<sub>2</sub>/Pt



Product is:

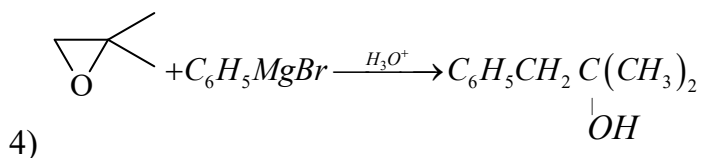
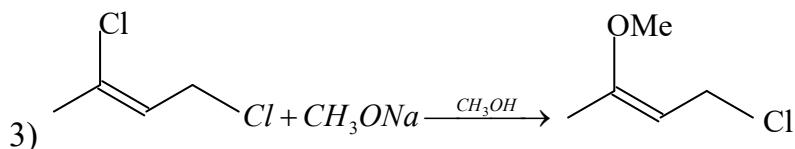
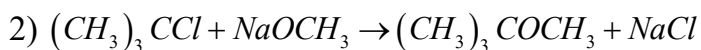
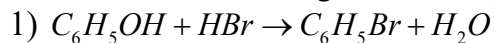


C is :

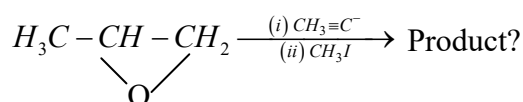


4) none of these

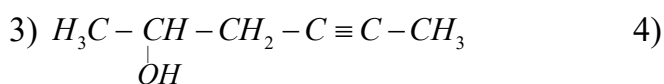
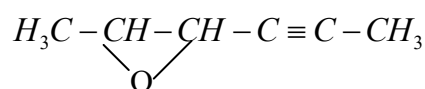
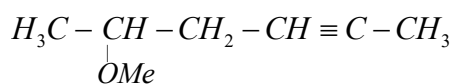
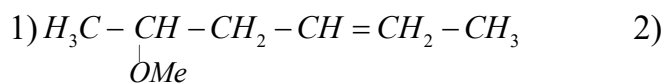
6. Which of the following reaction is possible?



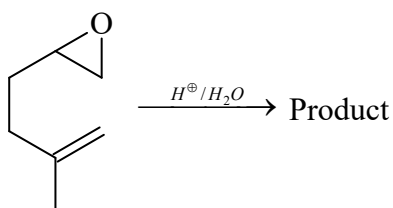
7.



Product is :

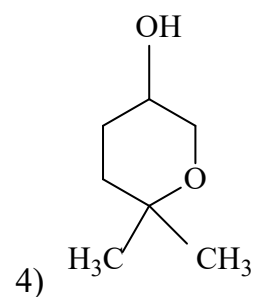
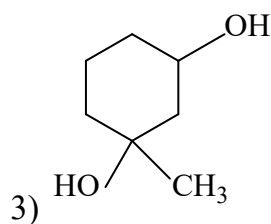
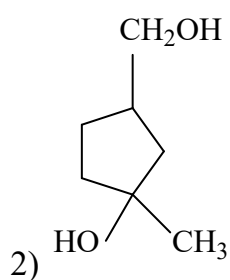
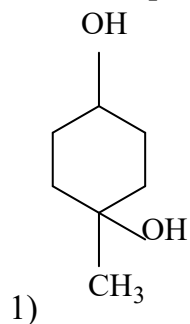


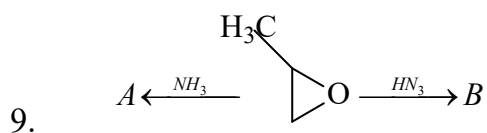
4)



8.

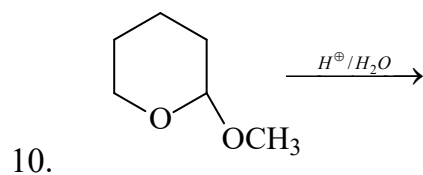
The main product is:



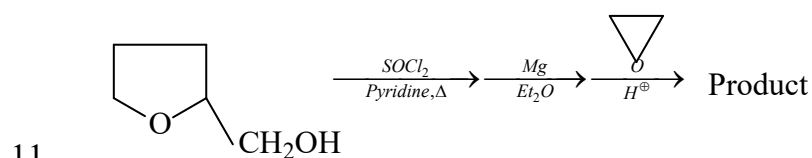


The products A and B are respectively:

- 1)  $A = \text{H}_2\text{N}-\text{CH}_2-\text{CH}(\text{OH})-\text{CH}_3$ ;  $B = \text{H}_3\text{C}-\text{CH}(\text{OH})-\text{CH}_2\text{N}_3$
- 2)  $A = \text{H}_3\text{C}-\text{CH}(\text{OH})-\text{CH}_2\text{NH}_2$ ;  $B = \text{N}_3-\text{CH}(\text{OH})-\text{CH}_3$
- 3)  $A = \text{H}_2\text{N}-\text{CH}(\text{OH})-\text{CH}_3$ ;  $B = \text{N}_3-\text{CH}(\text{OH})-\text{CH}_3$
- 4)  $A = \text{H}_2\text{N}-\text{CH}(\text{OH})-\text{CH}_3$ ;  $B = \text{N}_3-\text{CH}(\text{OH})-\text{CH}_3$

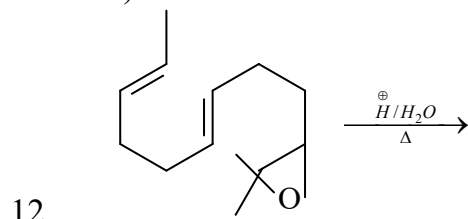


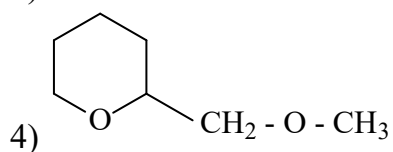
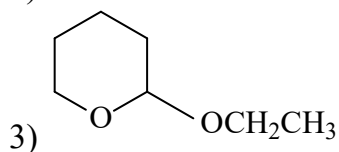
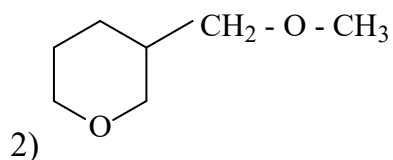
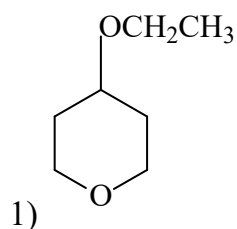
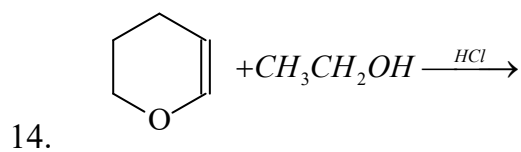
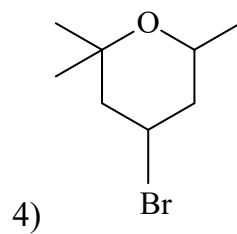
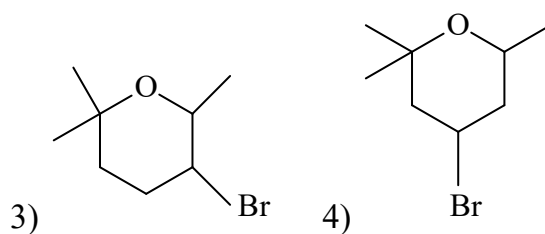
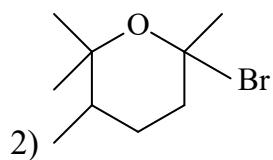
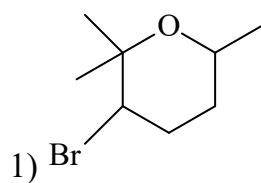
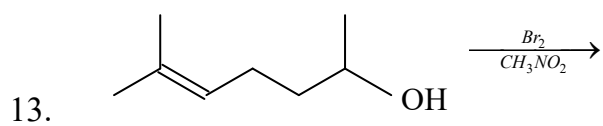
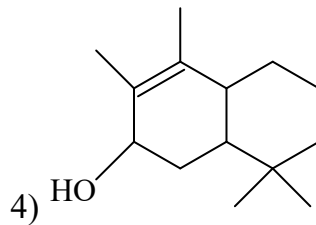
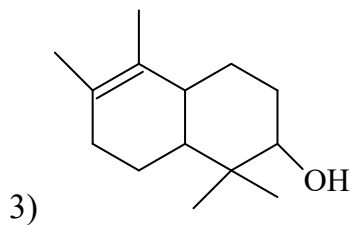
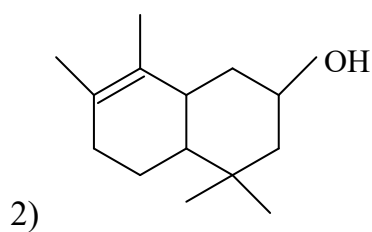
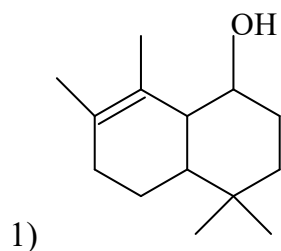
- 1)  $\text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CHO}$     2)  $\text{CH}_3\text{CH}_2-\text{OH}$     3)  $\text{CH}_3-\text{CH}_2-\text{CHO}$     4)  $\text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CO}-\text{CH}_3$



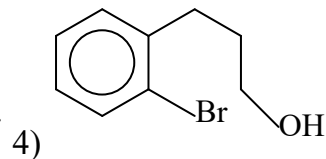
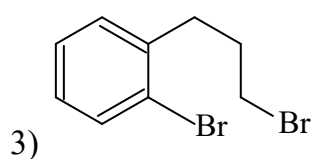
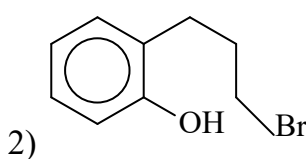
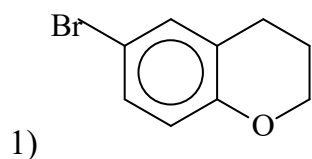
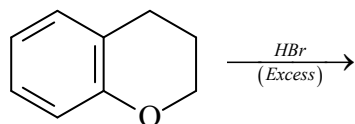
The final product is:

- 1)  $\text{4-(4-hydroxybutyl)tetrahydrofuran}$     2)  $\text{4-(3-hydroxypropyl)tetrahydrofuran}$
- 3)  $\text{4-(2-hydroxyethyl)-2-methyltetrahydrofuran}$     4)  $\text{4-(2-hydroxyethyl)-2-methyltetrahydrofuran}$

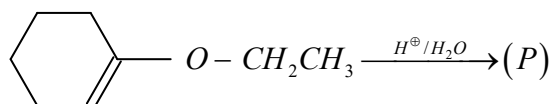




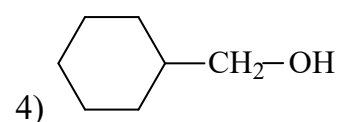
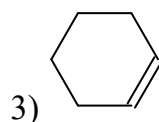
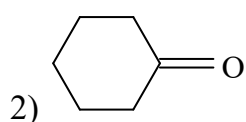
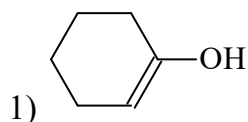
15. Find out correct product of reaction:



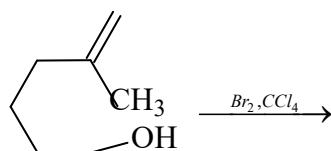
16. In the given reaction



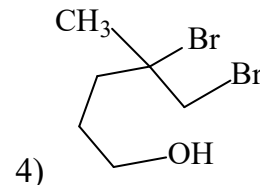
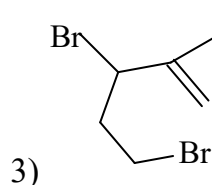
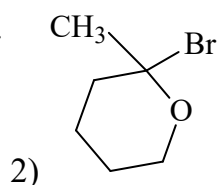
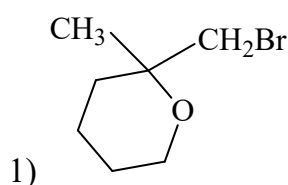
P will be :



17.

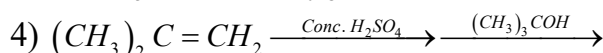
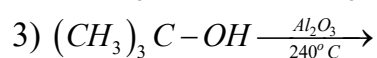
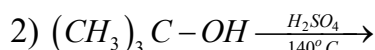
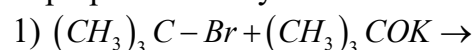


The major product obtained in this reaction is:



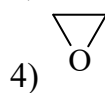
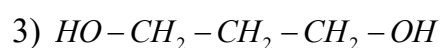
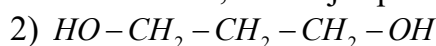
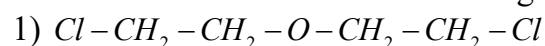
18.

Is prepared best by the reaction :

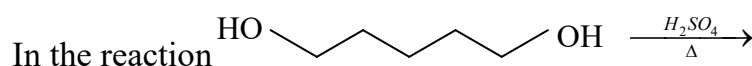


19.

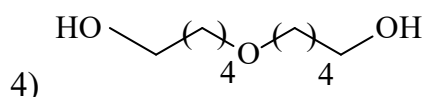
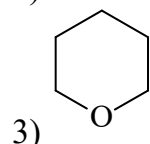
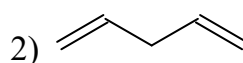
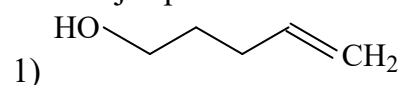
When 2-chloroethanol is warmed slightly with dilute NaOH, the major product formed is:



20.

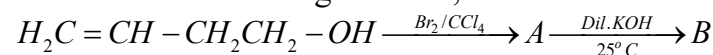


The major product formed is:

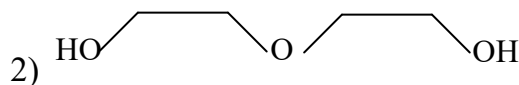
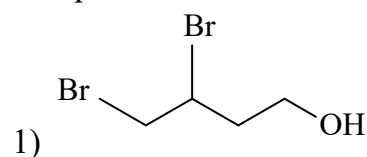


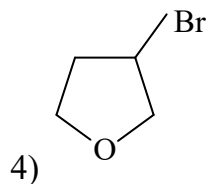
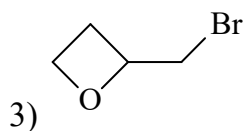
21.

Consider the following reaction,

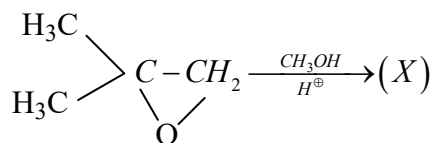


The product B is :

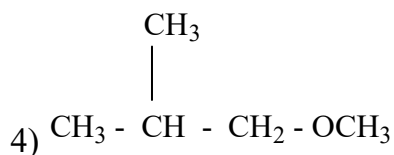
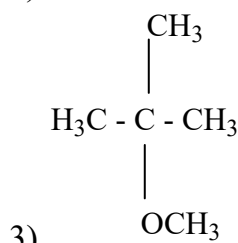
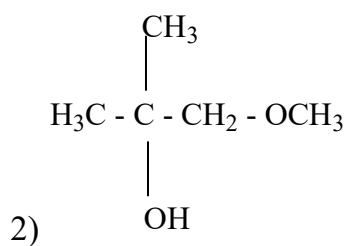
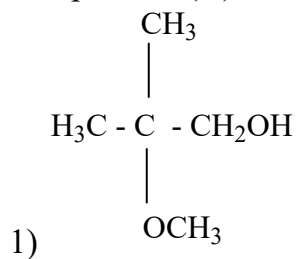




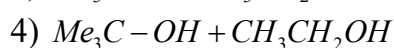
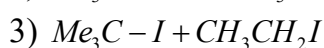
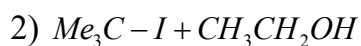
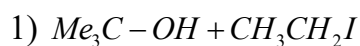
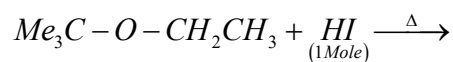
22. In the reaction,



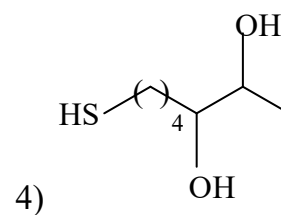
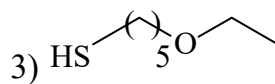
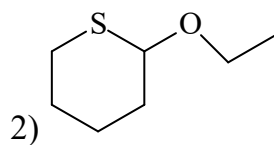
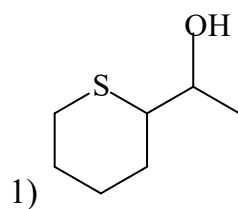
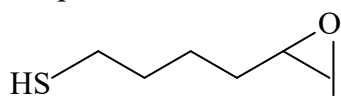
The product (X) has the structure:



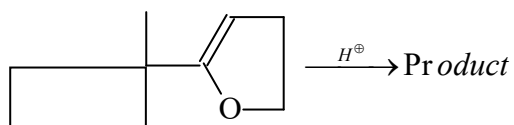
23. In the reaction:

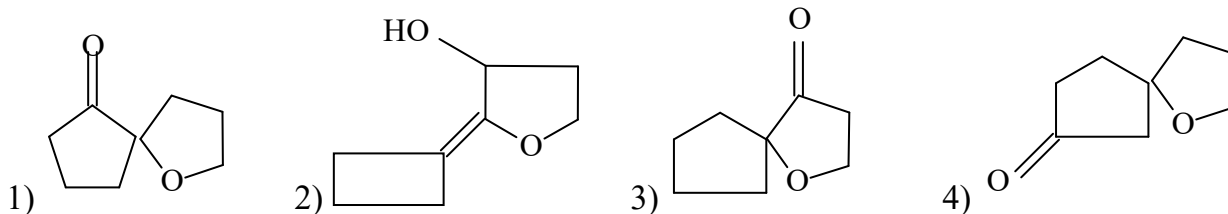


24. The product of the reaction is:

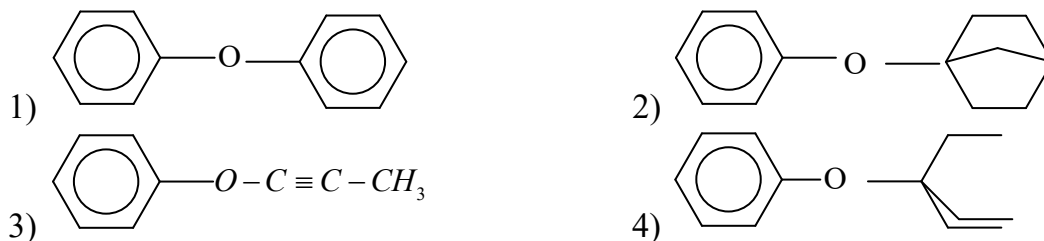


25.

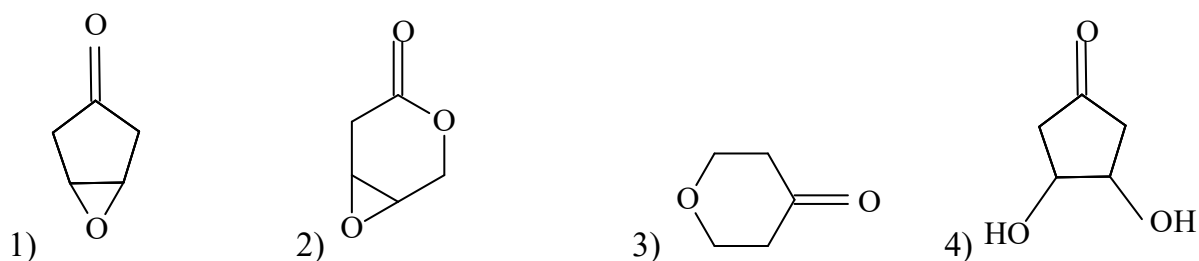
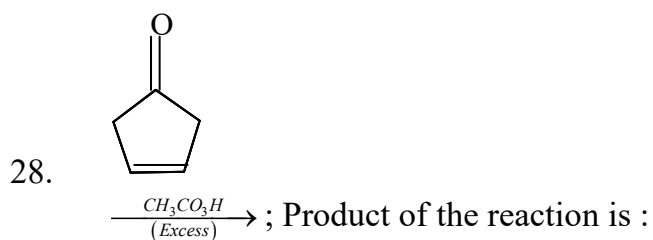
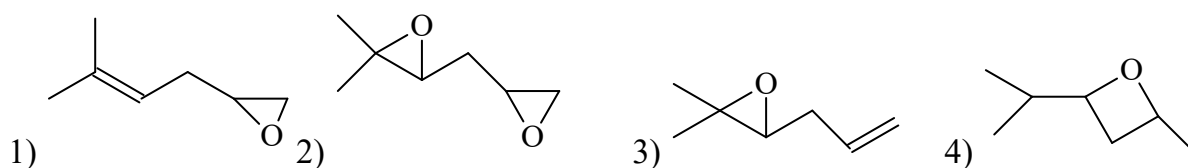
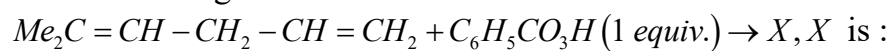




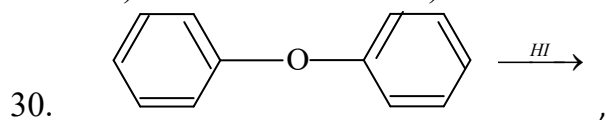
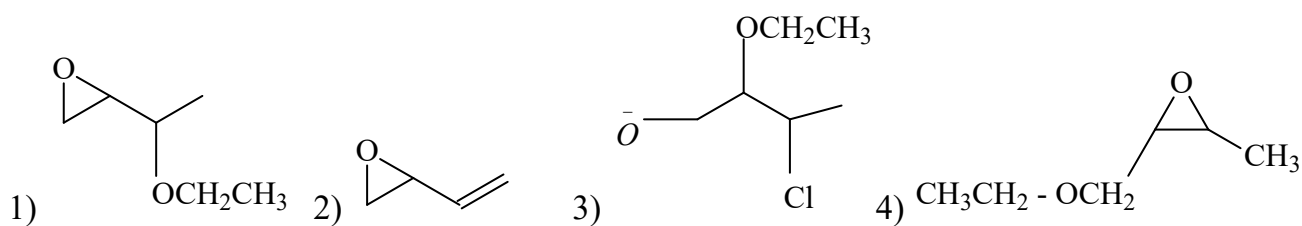
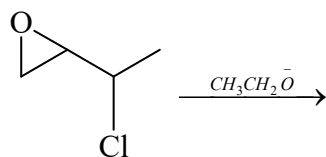
26. Which of the following ethers will get hydrolysed by  $H^+ / H_2O$ ?



27. In the following reactions



29. Select the major product of following reaction:



Predict the correct option:



\*\*\*

### KEY

CHEMISTRY										
1-10	3	2	3	2	1	4	2	2	3	1
11-20	2	3	1	3	2	2	1	4	4	3
21-30	4	1	2	1	1	4	3	2	4	4

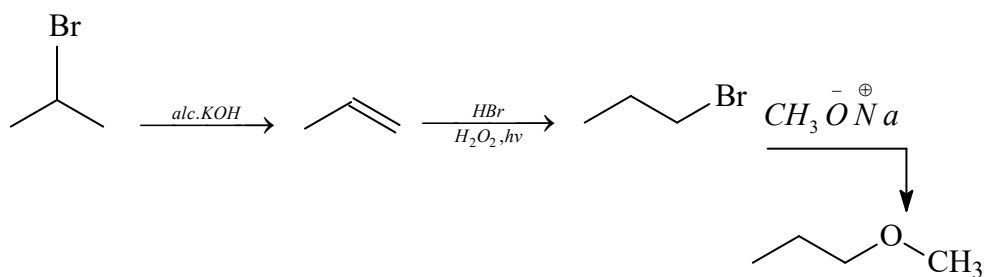
## SOLUTIONS:

### CHEMISTRY

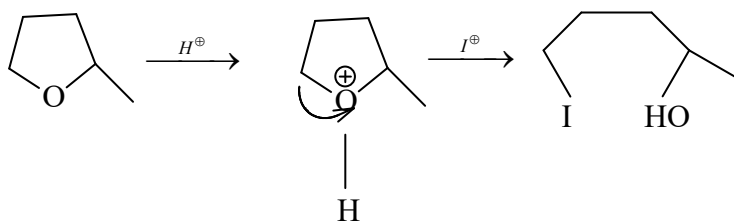
1.



2.

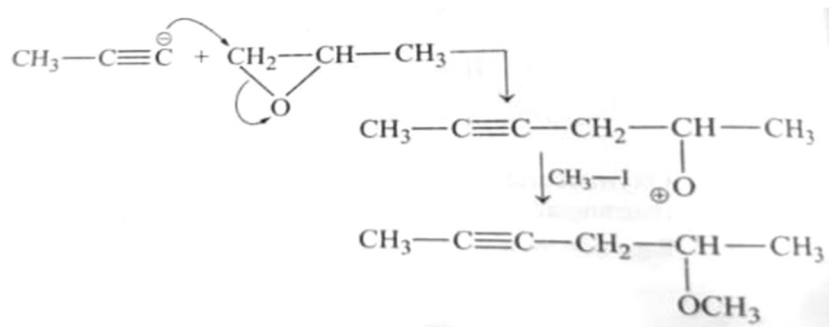


4.



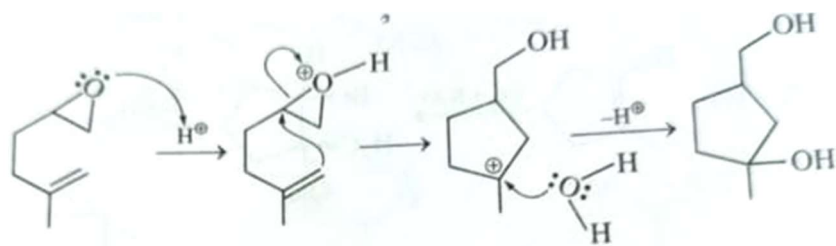
6.  $S_N2$  reaction do not proceed with  $3^\circ$  halide, vinyl halide and phenyl halide.

7.

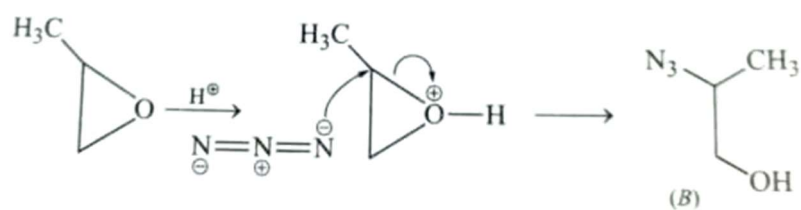
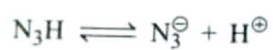
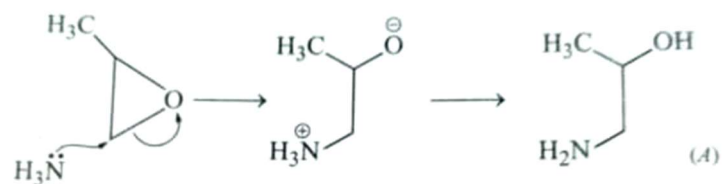




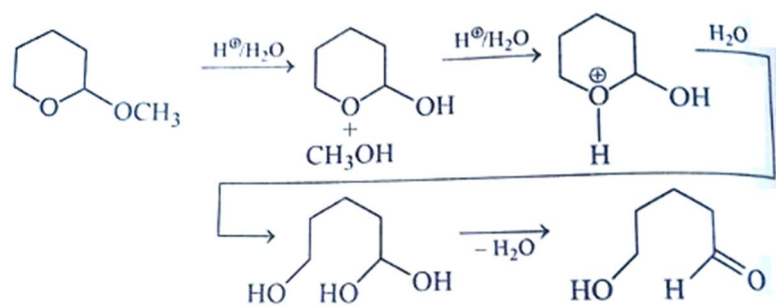
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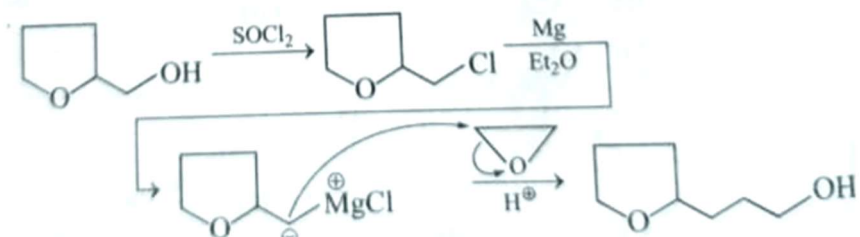
9.



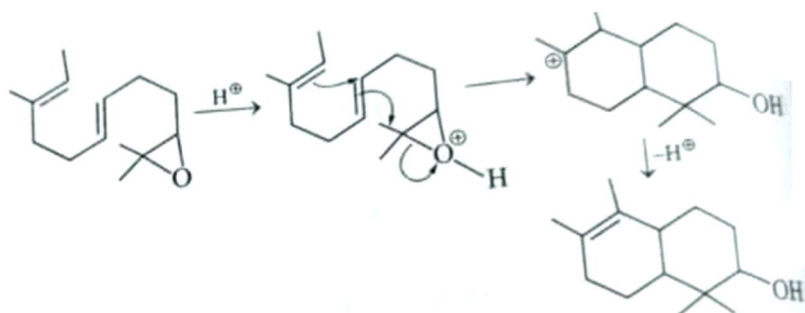
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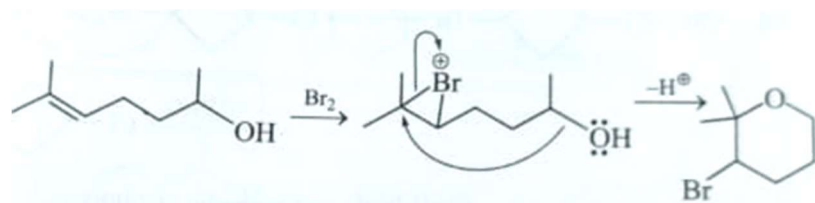
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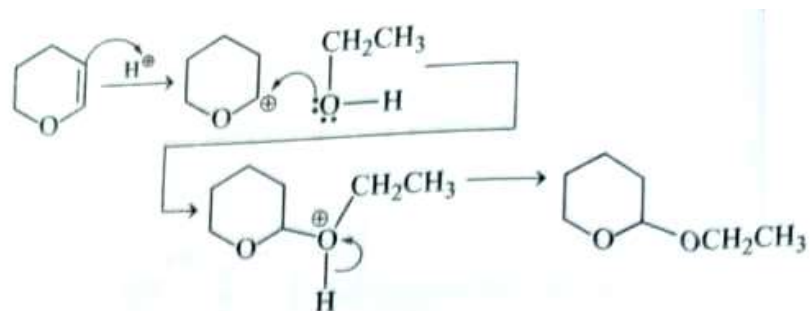
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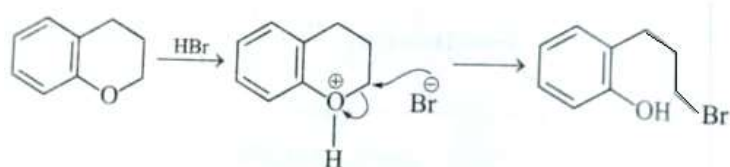
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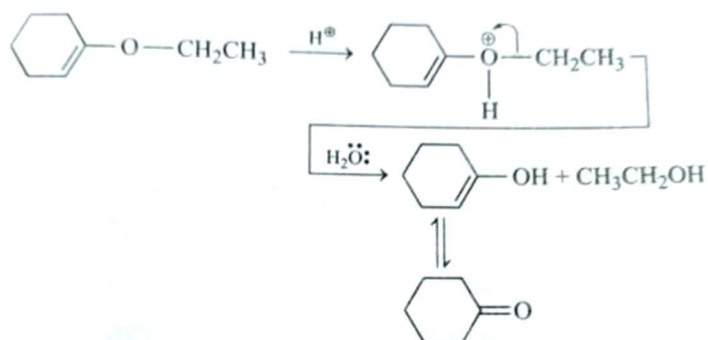
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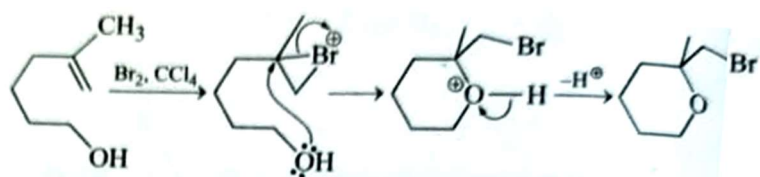
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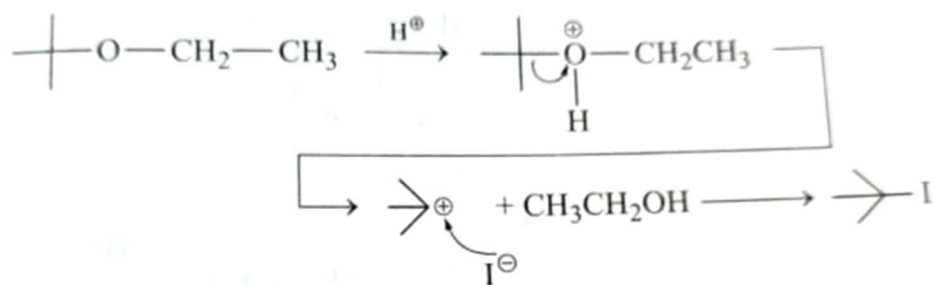
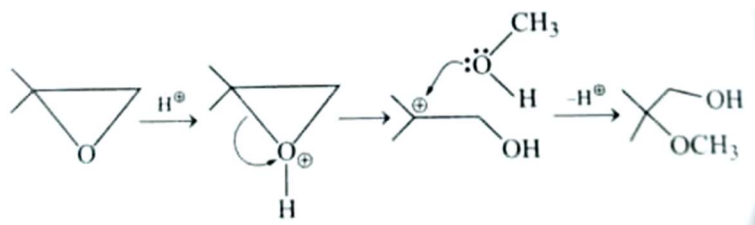
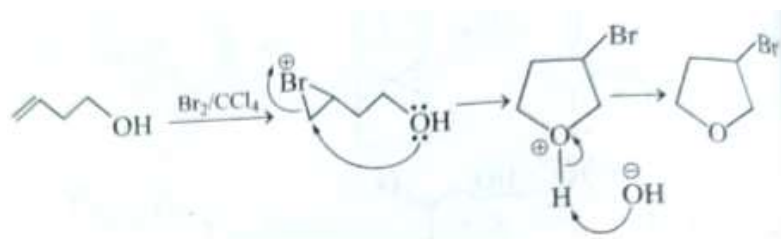
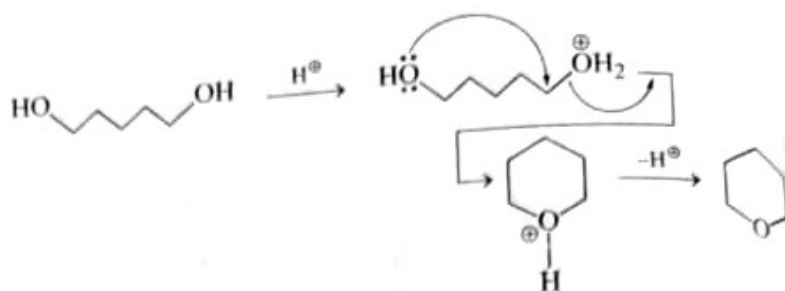
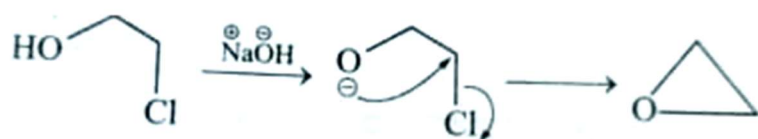
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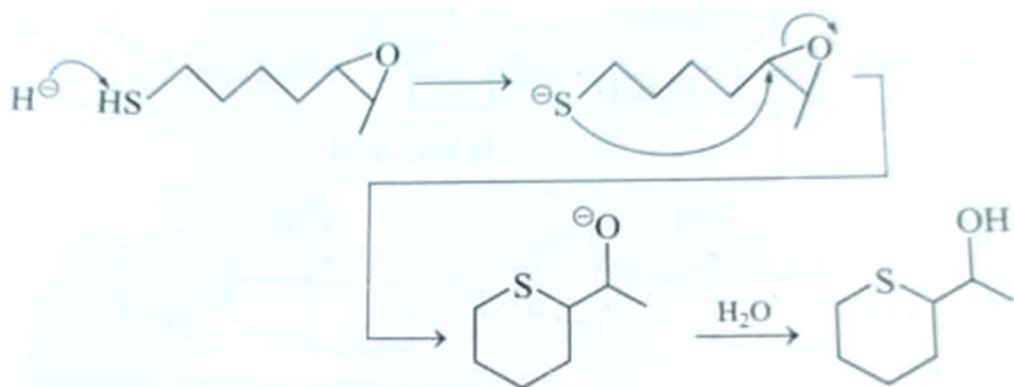


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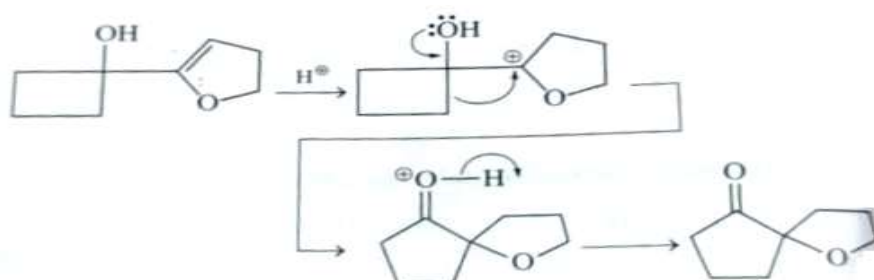


18.

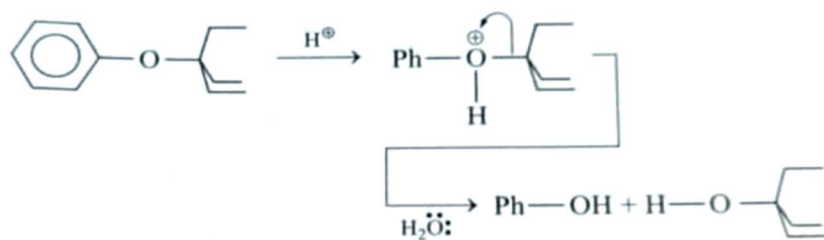




25.



26.



29.

