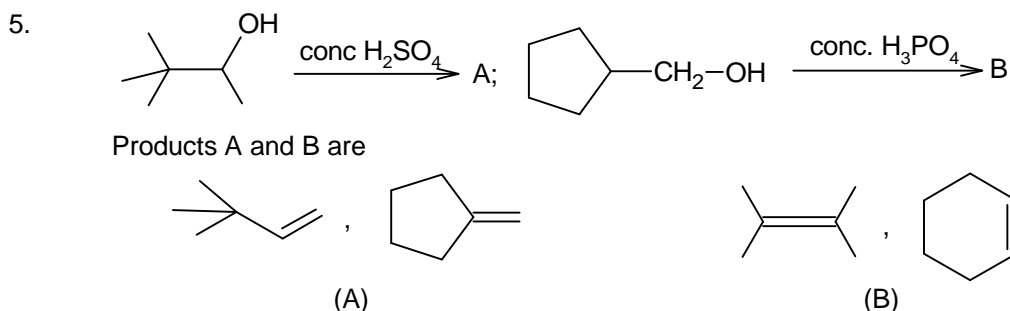
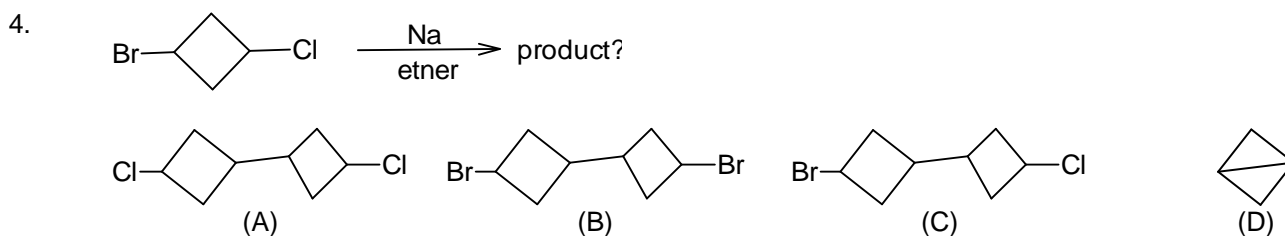
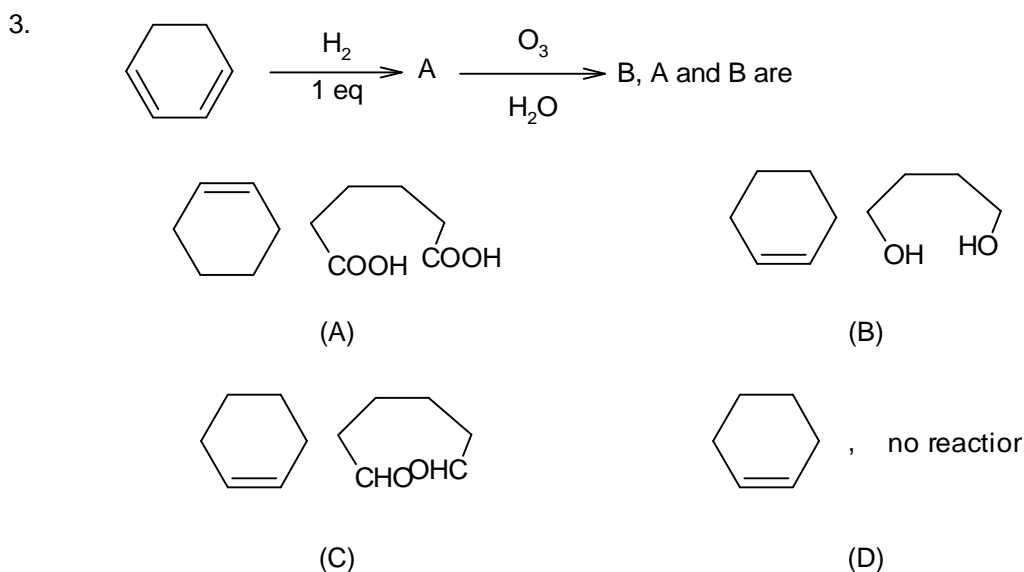
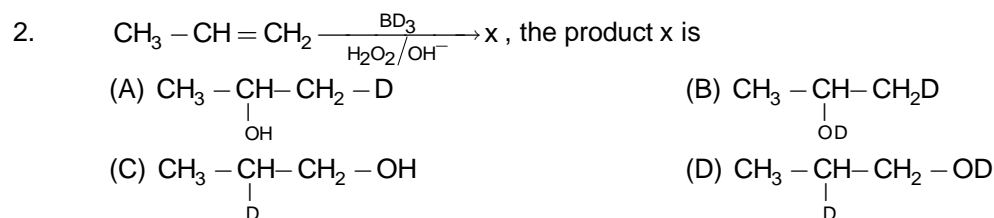
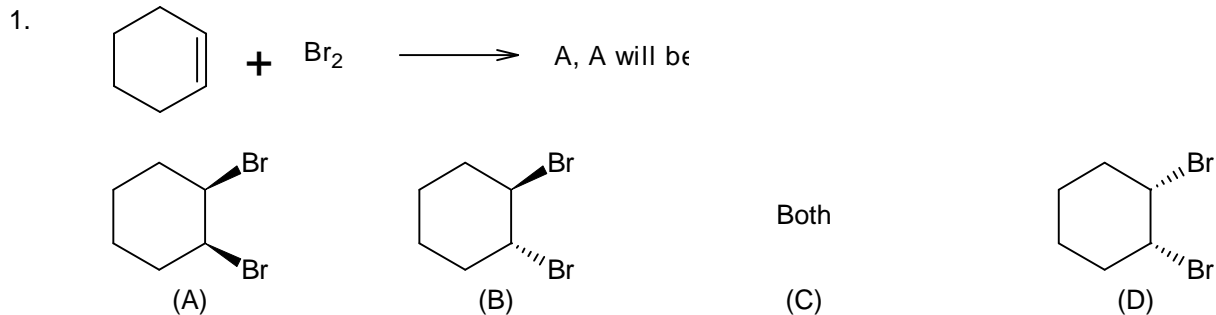
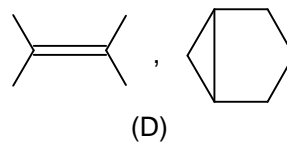
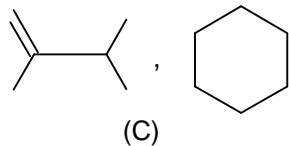
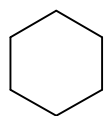
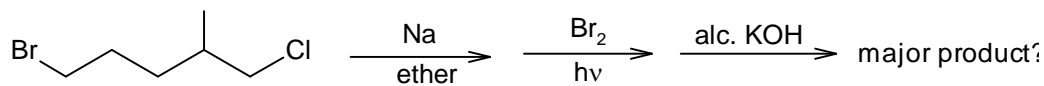


SINGLE CORRECT OPTION TYPE

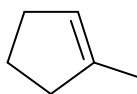




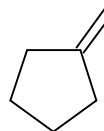
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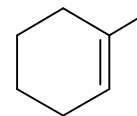
(A)



(B)

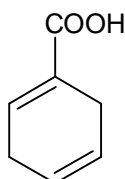
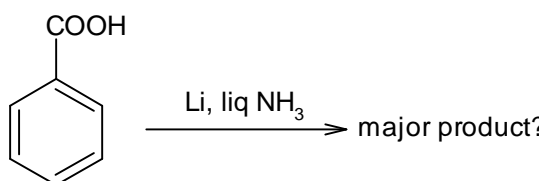


(C)

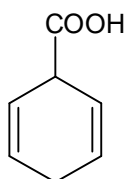


(D)

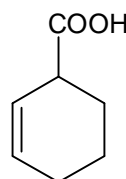
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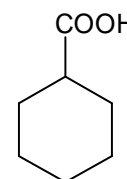
(A)



(B)

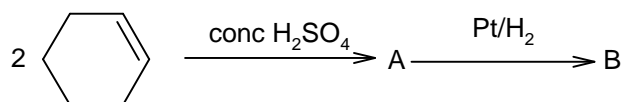


(C)

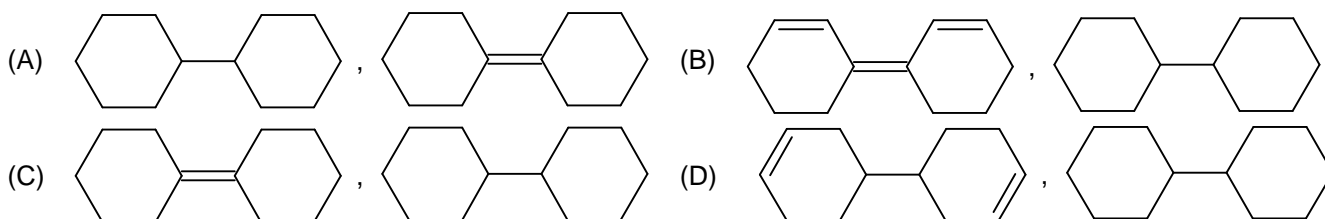


(D)

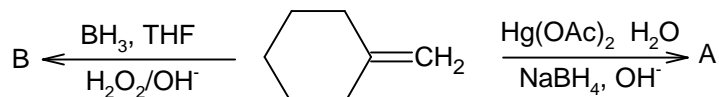
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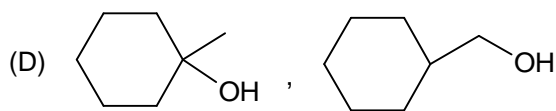
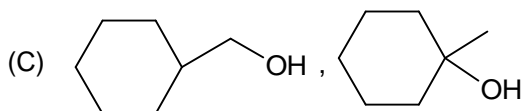
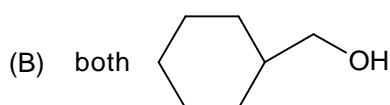
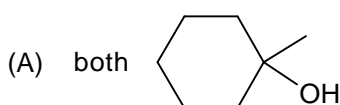
Products A and B are



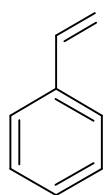
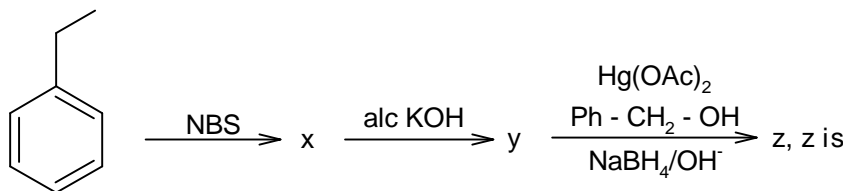
9.



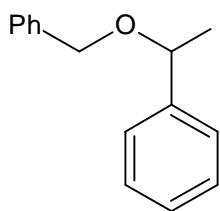
The products A and B respectively



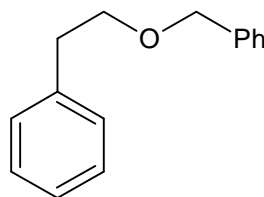
10.



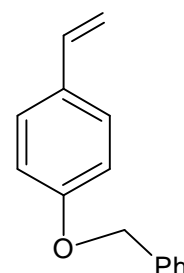
(A)



(B)

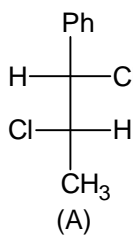
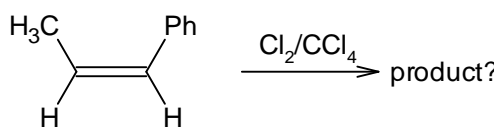


(C)

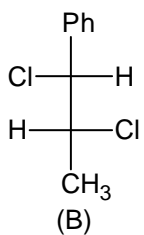


(D)

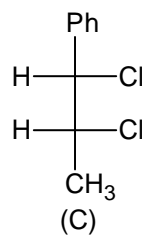
11.



(A)



(B)

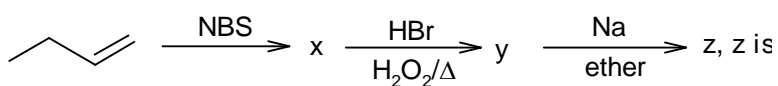


(C)

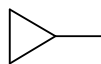
(a) and (b)

(D)

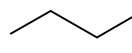
12.



(A)



(B)

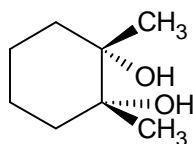
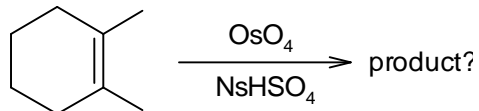


(C)

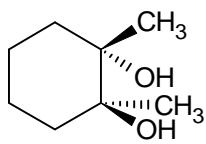


(D)

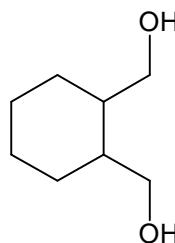
13.



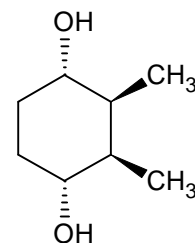
(A)



(B)

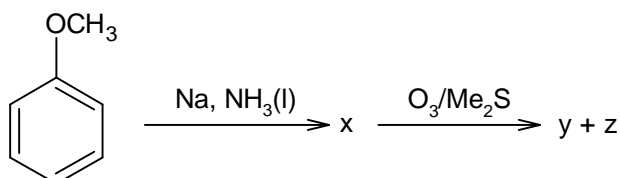


(C)

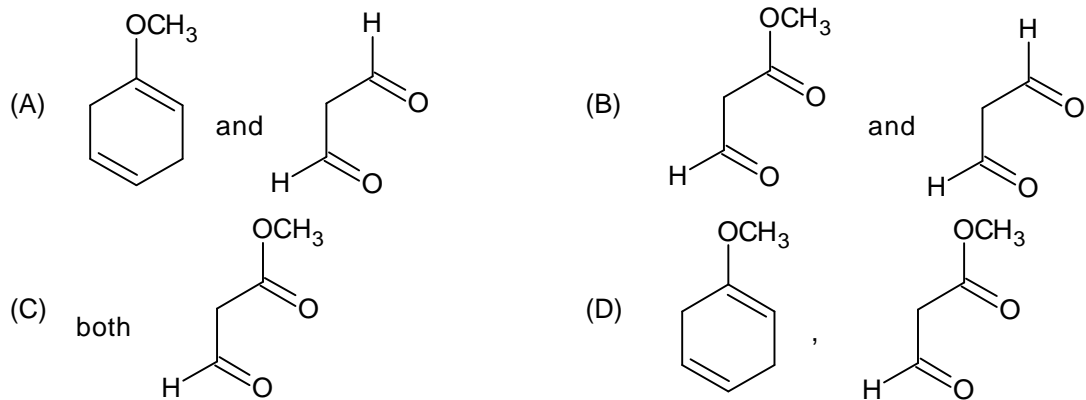


(D)

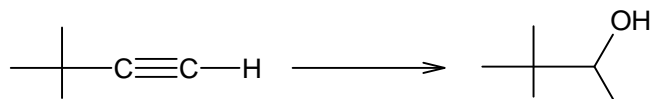
14.



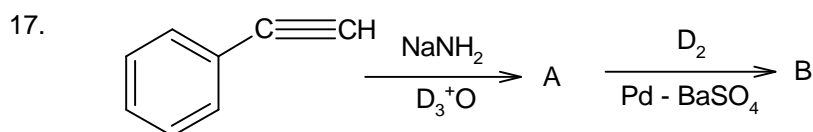
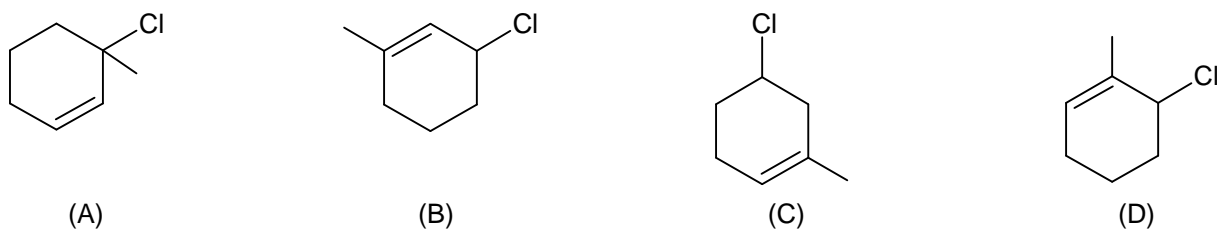
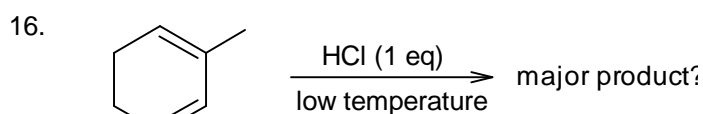
Identify products y and z



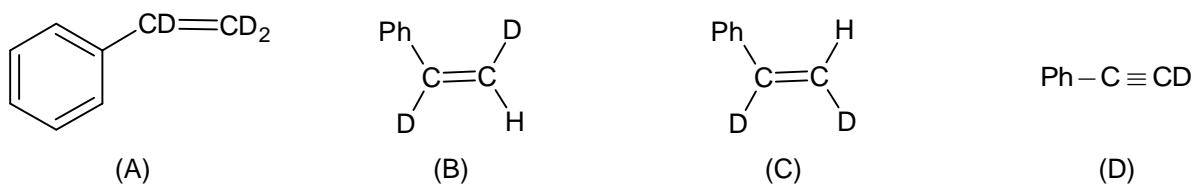
15. Select the reagent for following transformation.



- (A)  $\text{H}_2 - \text{Pd}, \text{HCHO}, \text{H}_2\text{SO}_4$  (B)  $\text{H}_2, \text{Pd} - \text{BaSO}_4; \text{Hg}(\text{OAc})_2, \text{H}_2\text{O}, \text{NaBH}_4 / \text{OH}^-$   
 (C)  $\text{BH}_3, \text{H}_2\text{O}_2, \text{OH}^-, \text{Pd} - \text{C}$  (D)  $\text{Hg}^{+2}, \text{H}_2\text{SO}_4, \text{H}_2, \text{Pd} - \text{BaSO}_4$



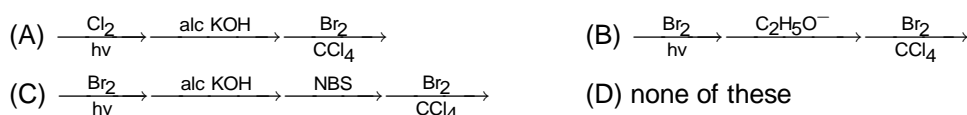
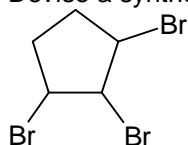
End product 'B' is



18. Which of the following reagents can be distinguish propyne from propene?

- (A)  $\text{Br}_2, \text{CCl}_4$  (B)  $\text{dil. KMnO}_4$  (C)  $\text{conc. H}_2\text{SO}_4$  (D)  $\text{AgNO}_3$  in  $\text{NH}_4\text{OH}$

19. Devise a synthesis of following compound from cyclopentane.

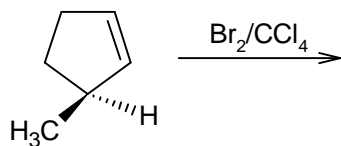


20.  $\text{CH}_3 - \text{C} \equiv \text{CH} \xrightarrow[\text{Cu tube}]{\text{red hot}}$  product ?  
 (A) benzene (B) toluene (C) o-xylene (D) mesitylene

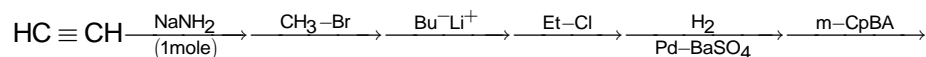
### INTEGER TYPE

21. Find number of  $\sigma$  - bonds present in the product of  $\text{CH}_3 - \text{C} \equiv \text{CH} \xrightarrow[\text{H}_2\text{O}_2, \text{OH}^-]{\text{BH}_3, \text{THF}}$

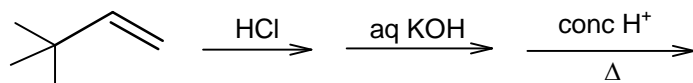
22. Find number of chiral centres present in the product of



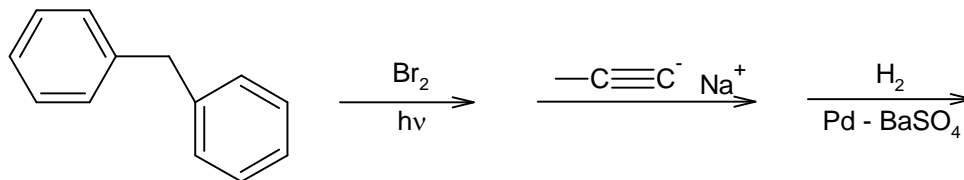
23. Sum of total number of atoms present in final product is



24. Number of ' $\alpha$ ' - hydrogen atoms in the final product is



25. The degree of unsaturation in the final product



### KEY

1.	B	2.	C	3.	A	4.	D	5.	B
6.	B	7.	B	8.	C	9.	D	10.	B
11.	D	12.	B	13.	B	14.	B	15.	B
16.	A	17.	A	18.	D	19.	C	20.	D
21.	9	22.	3	23.	16	24.	12	25.	9

*\* Wish You<sup>ost</sup> all the Best \**