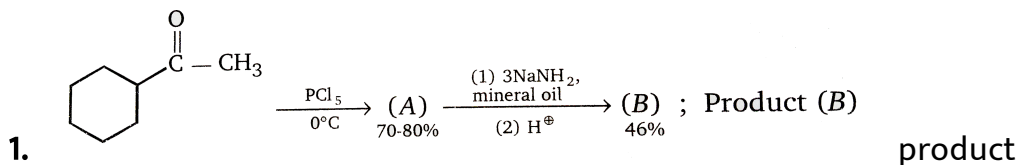


## CHEMISTRY

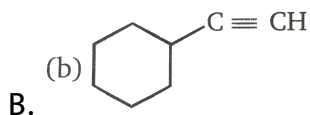
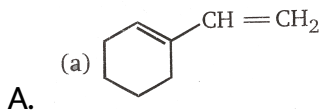
### BOOKS - MS CHOUHAN CHEMISTRY (HINGLISH)

### HYDROCARBONS (ALKYNES)

#### Exercise

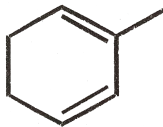


(B) is:



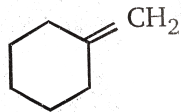
C.

(c)



D.

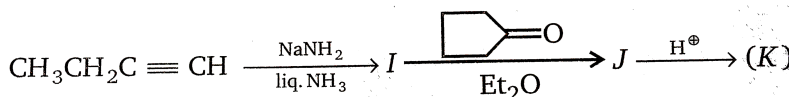
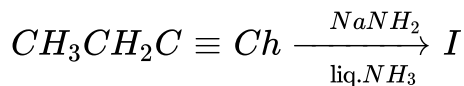
(d)



Answer: b

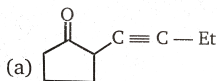
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2.

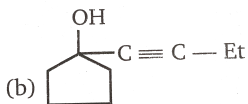


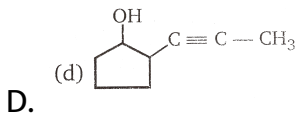
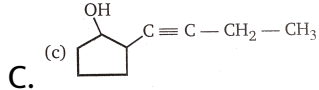
Product (K) of the above is:

A.



B.

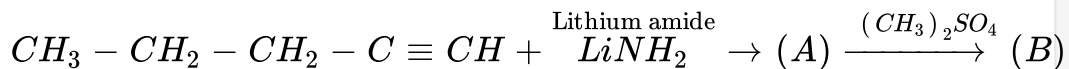




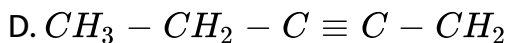
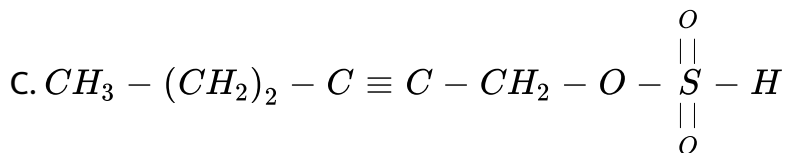
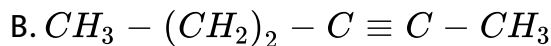
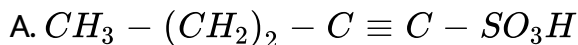
Answer: b

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3.

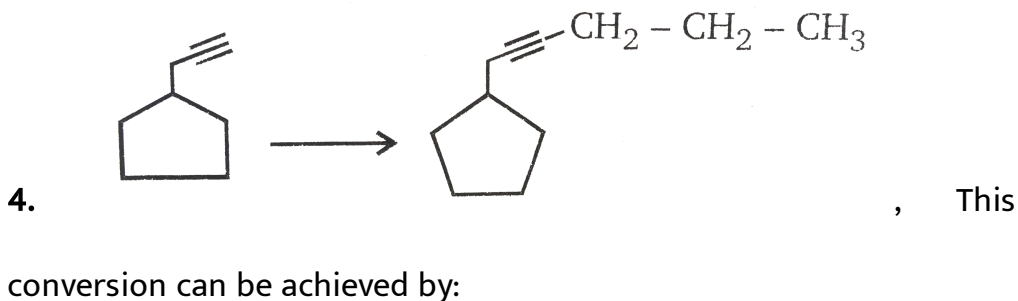


Give the structural formula of compound (B):



Answer: b

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A.  $\text{NaNH}_2, \text{CH}_3\text{CHO}$

B.  $\text{NaNH}_2, \text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{Br}$

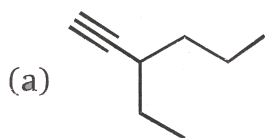
C.  $\text{KOH}, \text{CH}_3 - \text{CH}_2 - \text{Br}$

D.  $\text{KOH}, \begin{array}{c} \text{CH}_2 - \text{CH}_2 \\ | \quad | \\ \text{Br} \quad \text{Br} \end{array}$

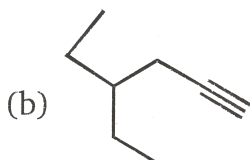
Answer: b

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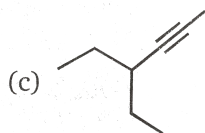
5. Which alkyne will give 3-ethylhexane on catalytic hydrogenation?



A.



B.



C.

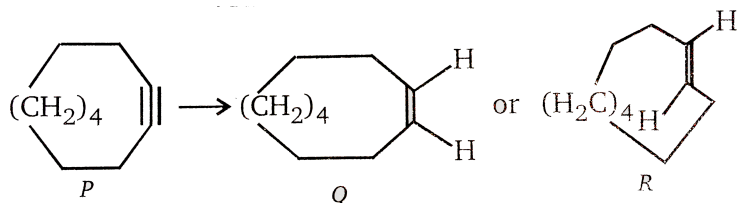
D. All of these

**Answer: D**



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6. Reactant P gives products Q or R.



The possible reagents are:

(I)  $2Na / liq. NH_3$  (II)  $H_2 / Pd / CaCO_3$  (quinoline) (III)  $2H_2 / Pd / C$

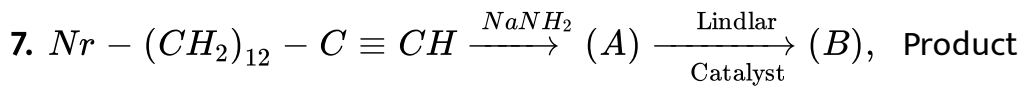
The correct with respect to the above conversion is/are:

- A. Q is obtained on treatment with reagent (I)
- B. R and Q are obtained on treatment with reagent (II)
- C. R is obtained on treatment with reagent (I)
- D. R is obtained on treatment with reagent (II)

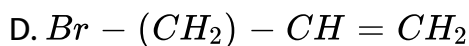
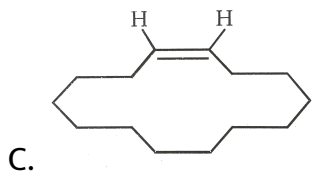
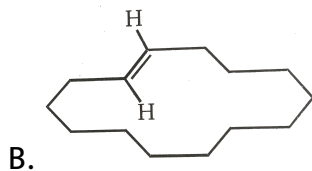
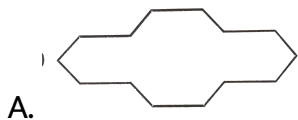
**Answer: C**



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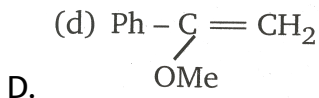
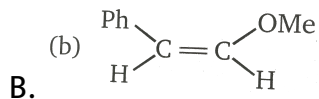
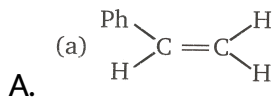
(B) is:



Answer: c

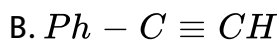
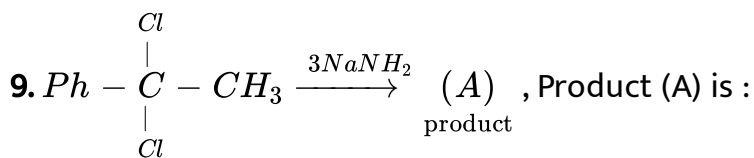
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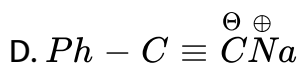


Answer: b

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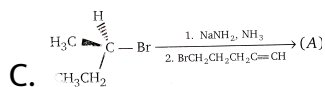
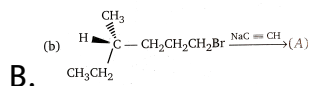
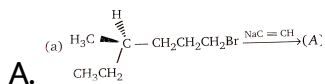
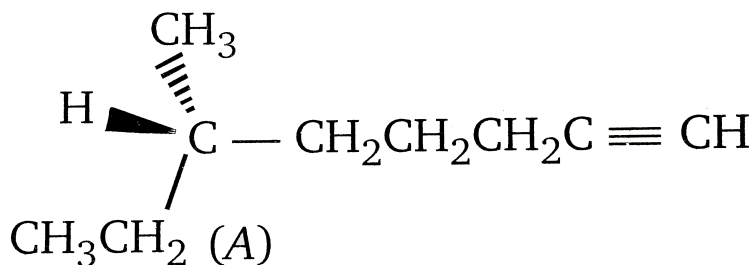


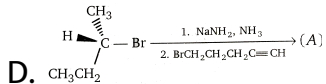


Answer: d

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10. Which combination is best for preparation of the compound (A) shown below?

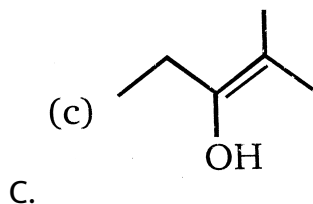
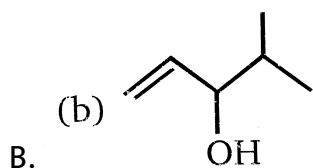
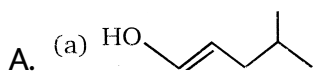


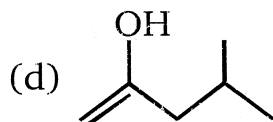


Answer: b

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11. Which one of the following is the intermediate in the preparation of a ketone by hydration of an alkyne in the presence of sulfuric acid and mercury (II) sulphate?

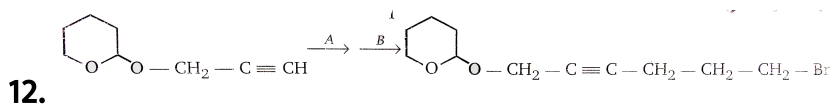




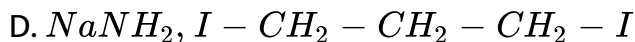
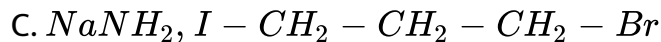
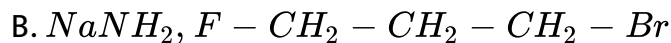
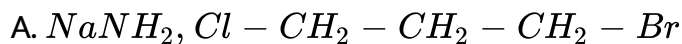
D.

Answer: d

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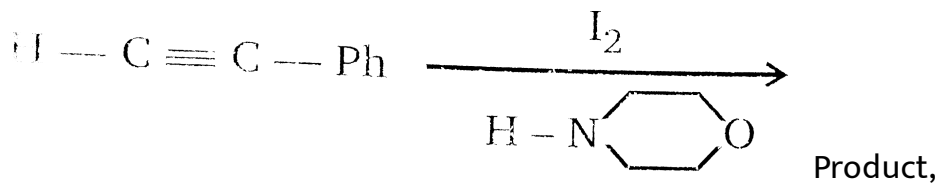


To carry out above conversion, (A) and (B) respectively, are:



Answer: c

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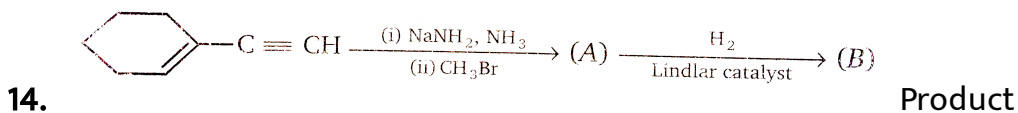


Product obtained in the reaction is:

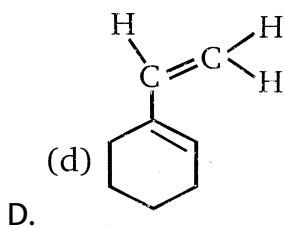
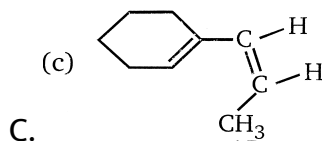
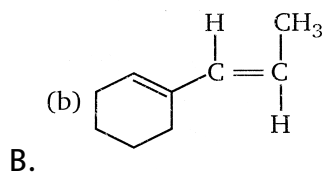
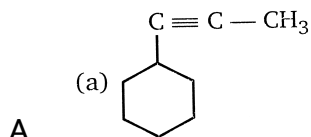
- A. 
$$\text{Ph} - \underset{\text{I}}{\text{C}} = \text{CH} - \text{I}$$
- B. 
$$\text{Ph} - \underset{\text{I}}{\text{CH}} - \text{CH}_2 - \text{I}$$
- C. 
$$\text{Ph} - \text{C} \equiv \text{C} - \text{I}$$
- D. 
$$\text{I} - \text{C} \equiv \text{C} - \text{H}$$

Answer: c

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(B) is :



Answer: c

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15. Which of the following alkyne on treatment with  $H_2(2 \text{ mole})/Pt$  gives an optically inactive compound?

- A. 3-Methyl-1-pentyn
- B. 4-Methyl-1-hexyne
- C. 3-Methyl-1-heptyne
- D. None of the above

**Answer: A**



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16.  $CaC_2$   $\xrightarrow{H_2O}$  (A)  $\xrightarrow{\text{Red hot Cu tube}}$  (B), Product (B) of the reaction is:

- A. Toluene
- B. Ethyl-benzene

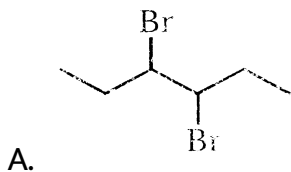
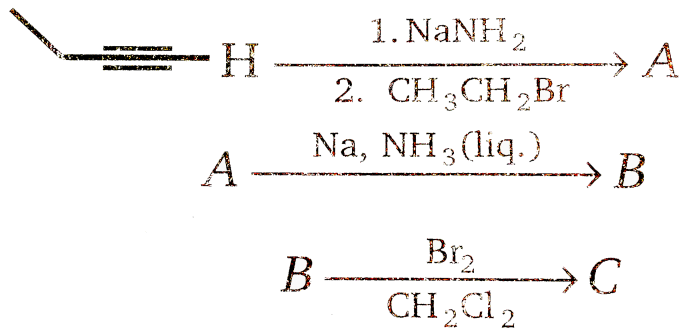
C. Benzene

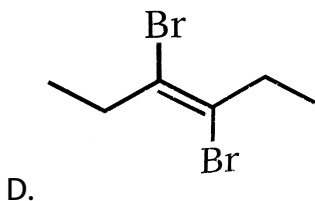
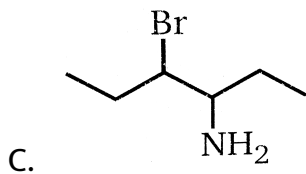
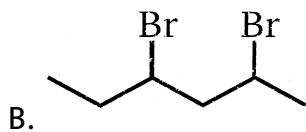
D. Butyne

Answer: c

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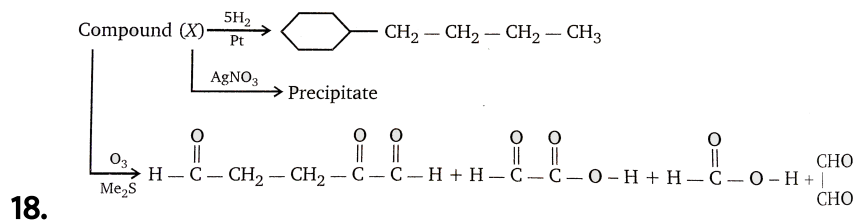
17. What is the final product, C of the following reaction sequence?



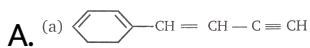


Answer: a

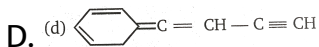
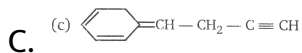
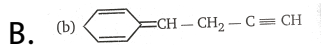
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Compound (X) will be:



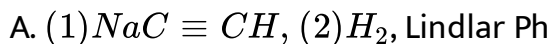




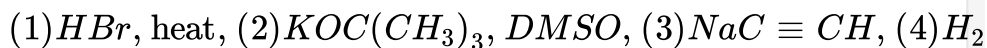
Answer: a

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19. Choose the sequence of steps that describes the best synthesis of 1-butene from ethanol:



D.



, Lindlar catalyst

**Answer: c**

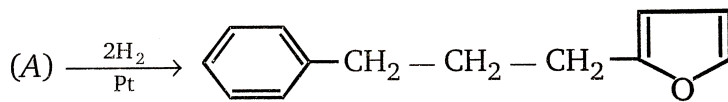
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20. Which alkyne yields butanoic acid ( $CH_3CH_2CH_2CO_2H$ ) as the only organic product on treatment with ozone followed by the hydrolysis?

- A. 1-Butyne
- B. 4-Octyne
- C. 1-Pentyne
- D. 2-Hexyne

**Answer: b**

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Carlina oxide

21.

Unit of unsaturation in compound (A)?

A. 7

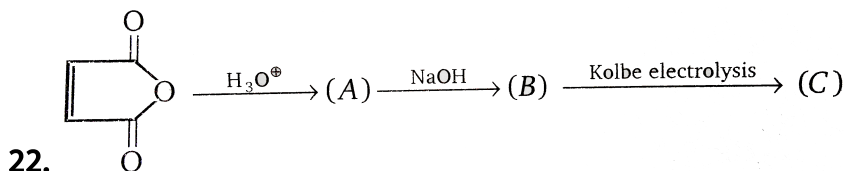
B. 8

C. 9

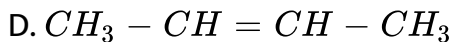
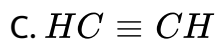
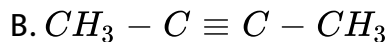
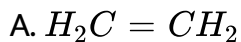
D. 10

Answer: C

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Product (C) of above reaction is:



**Answer: c**

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**23.** An unknown compound (A) has a molecular formula  $C_4H_6$ . When (A) is treated with excess of  $Br_2$  a new substance (B) with formula  $C_4H_6Br_4$  is formed (A) forms a white ppt. with ammonical silver nitrate solution. (A) may be,

A. But-1-yne

B. But-2-yne

C. But-1-ene

D. But-2-ene

**Answer: a**

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**24.** One mole of 1,2-dibromopropane on treatment with X moles of  $NaNH_2$  followed by treatment with ethyl bromide gave a pentyne.

The value of X is:

A. One

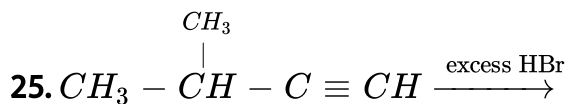
B. Two

C. Three

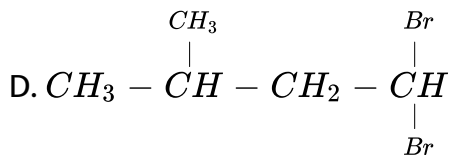
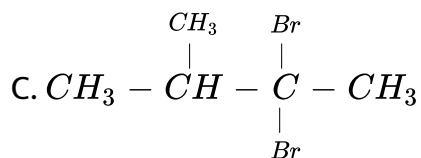
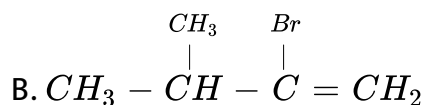
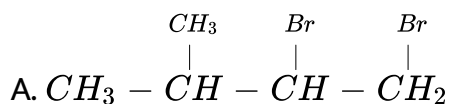
D. Four

**Answer: c**

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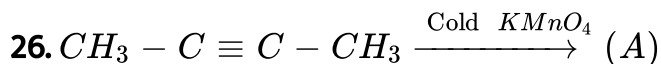


The product of the above reaction is:

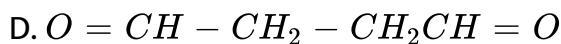
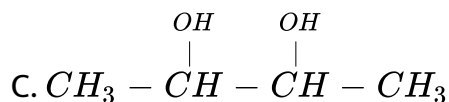
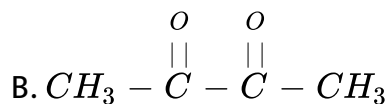
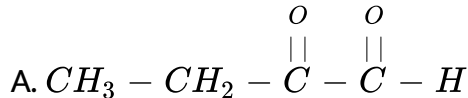


Answer: C

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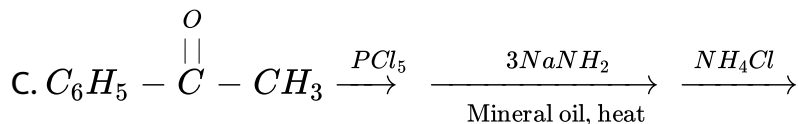
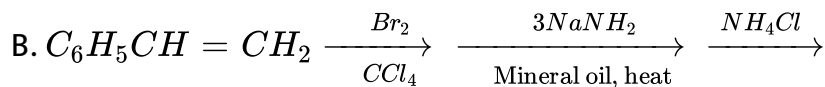
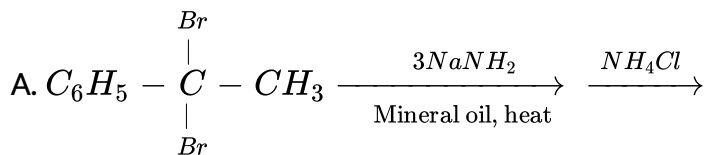
Product (A) is :



Answer: b

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27. In which reaction last production is  $Ph - C \equiv CH$ ?

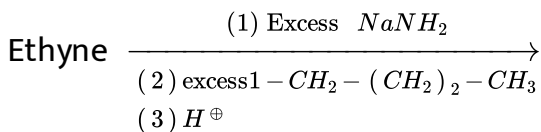


D. All

Answer: d

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28. Predict the product of the following reaction sequence:



A. 6-iodo-1-hexyne

B. 1-hexyne

C. 5-decyne

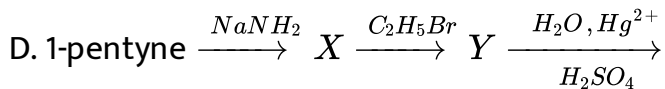
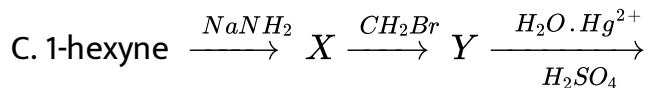
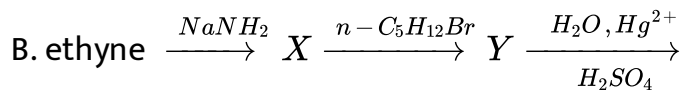
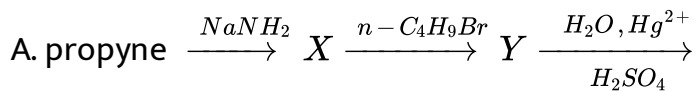
D. 1-iodo-1-hexane

Answer: c

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29. The best sequence of reactions to prepare 2-heptanone is



Answer: b

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30. The major product of the reaction of 2-butene with cold alkaline

$KMnO_4$ , is

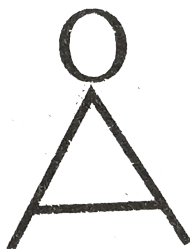


A.

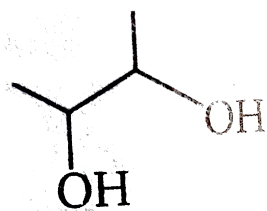
B.



C.



D.

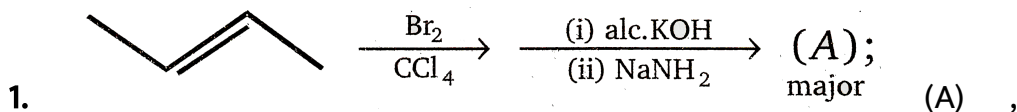


Answer: d

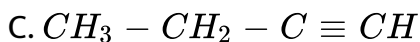
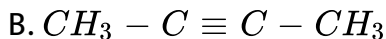
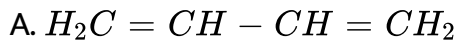


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Level 1 Q 1 To Q 30



product (A) is:



Answer: b

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2. To convert 1-butyne to 1-D-butanal, one would carry out the following steps:

(I) Sodium amide, then  $D_2O$

(II) Disiamylborane, then hydrogen proxide/sodium hydroxide

(III) The transformation can not be carried out with the indicated reagents.

A. I, followed by II

B. II, followed by I

C. III

D. II

**Answer: c**



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