

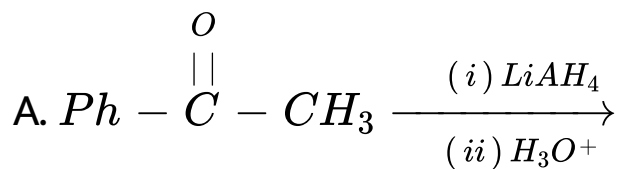
CHEMISTRY

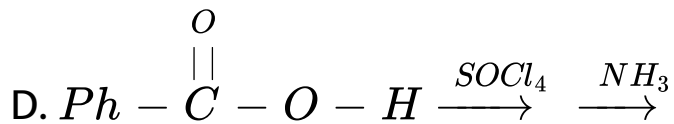
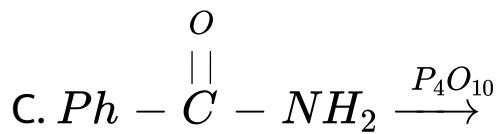
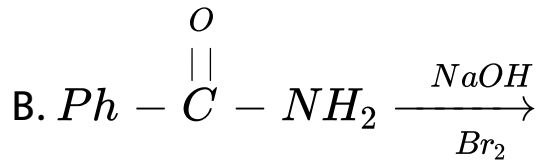
BOOKS - MS CHOUHAN

AMINES

Level 1

1. In which of the following reaction cyanide will be obtained as a major product ?

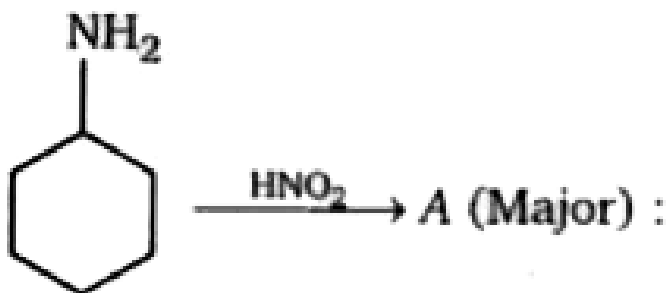




Answer: C

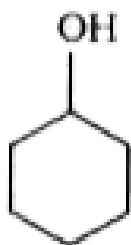


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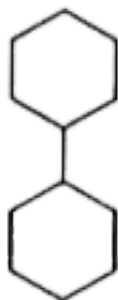


2.

Product (A) is :

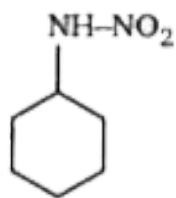


A.

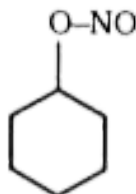


B.

C.



D.



Answer: A



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3. Which of the following alkene cannot be prepared by de-amination of $n - \text{Bu} - \text{NH}_2$ with $\text{NaNO}_2 / \text{HCl}$?

$n - \text{Butyl}$

A. 1-butene

B. cis-2-butene

C. trans-2-butene

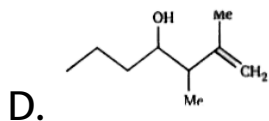
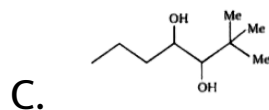
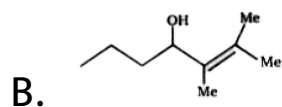
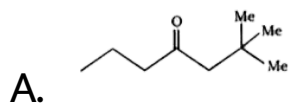
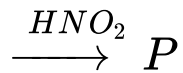
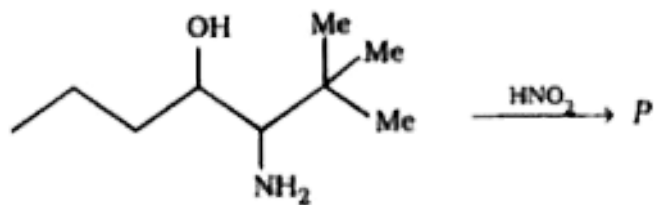
D. Iso-butene

Answer: D



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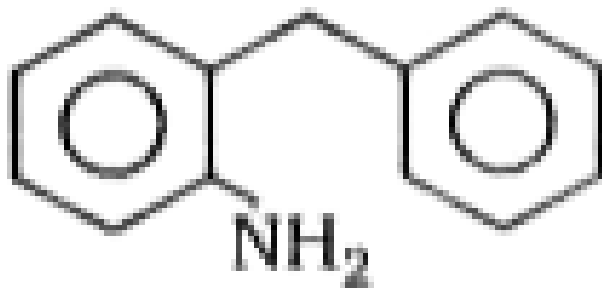
4. Predict the major product P in the following reaction.



Answer: A

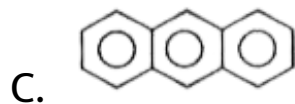
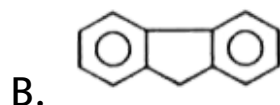
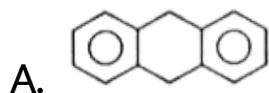


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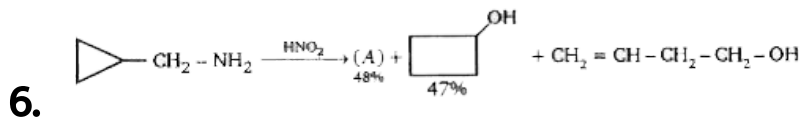


5.

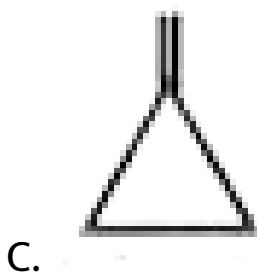
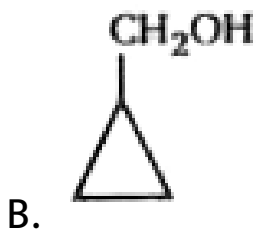
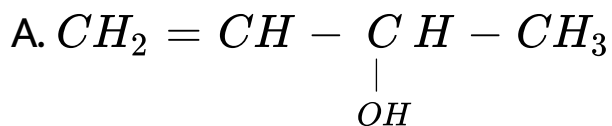
$\xrightarrow[H_2SO_4]{NaNO_2}$ (A), Product of this reaction is



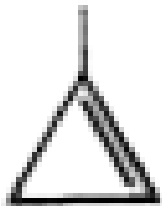
Answer: B



A will be



D.



Answer: B



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7. Which of the following isomers of C_8H_9NO is the weakest base ?

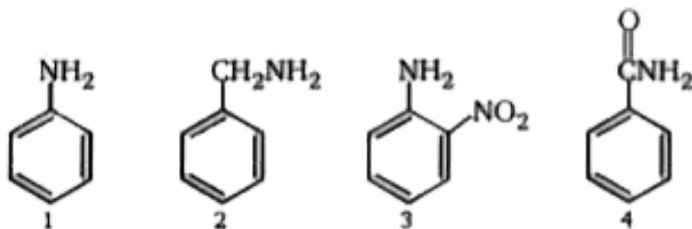
- A. o-Aminacetophenone
- B. p-Aminoacetophenone
- C. o-Aminoacetophenone

D. Acetanilide

Answer: D

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8. Rank the following compounds in order of increasing basic strength. (weakest \rightarrow strongest)



A. $4 < 2 < 1 < 3$

B. $4 < 3 < 1 < 2$

C. $4 < 1 < 3 < 2$

D. $2 < 1 < 3 < 4$

Answer: B



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9. Which of the following arylamines will not form a diazonium salt on reaction with sodium nitrite in hydrochloric acid ?

A. m-Ethylanilie

B. p-Aminoacetophenone

C. 4-Chloro-2-nitroaniline

D. N-Ethyl-2-methylaniline

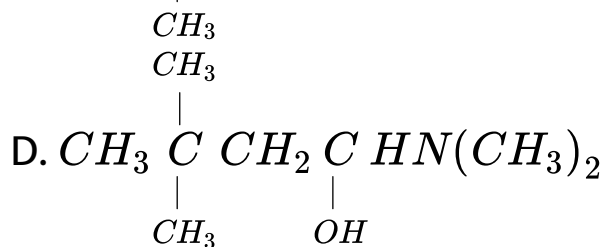
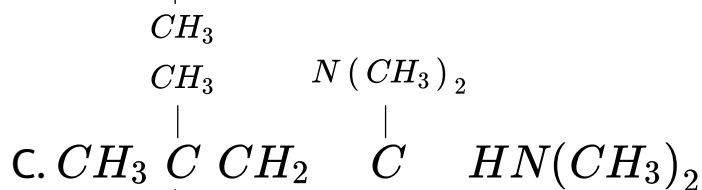
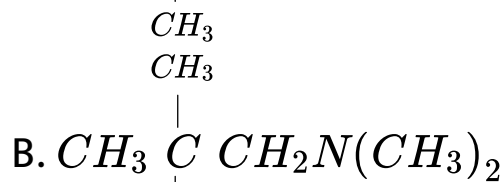
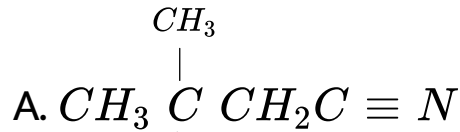
Answer: D



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10. Identify product D in the following reaction sequence :

[Math Processing Error]

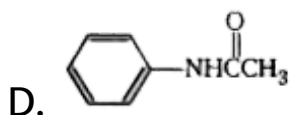
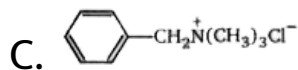
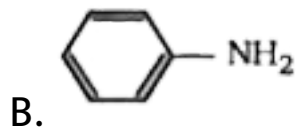
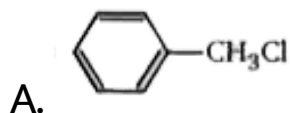
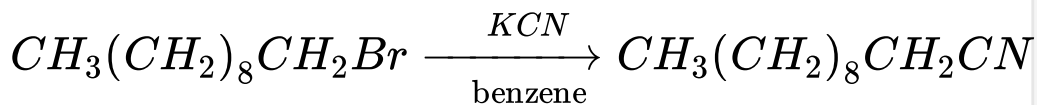


Answer: B



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11. Which one of the following is best catalyst for the reaction shown below ?

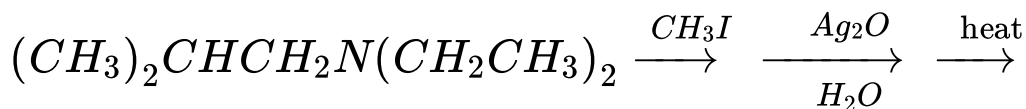


Answer: C

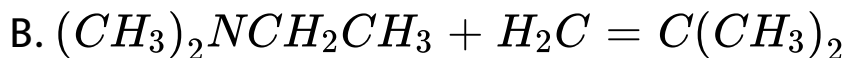
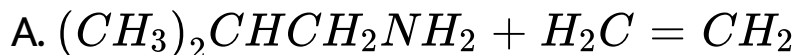


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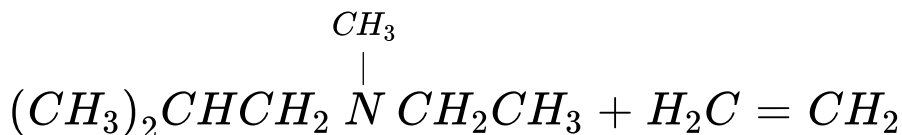
12. The major products obtained from the following sequence of reactions are :



products



C.

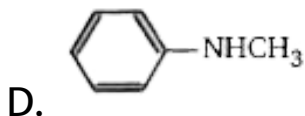
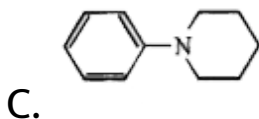
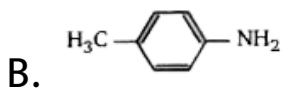
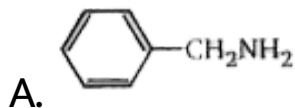


Answer: C

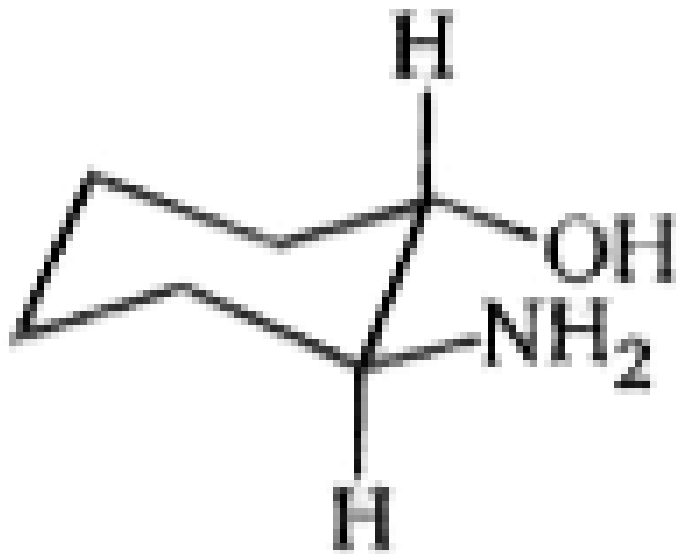


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13. Which amine yields N-nitroso amine after treatment with nitrous acid ($NaNO_2$, HCl) ?



Answer: D



14.

$\xrightarrow{HNO_2}$ (A), Product (A) is :

A. cyclopentane carboxyaldehyde

B. cyclohexane -1 , 2-diol

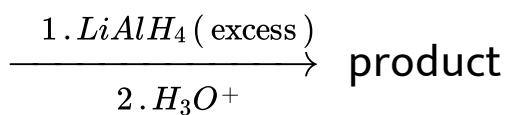
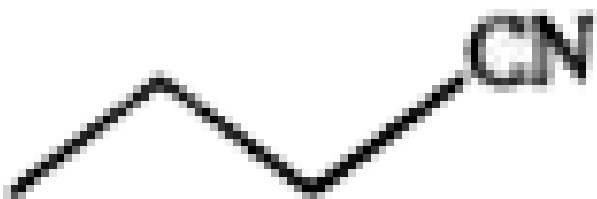
C. 2-aminocyclohexene

D. cyclohex-2-enol

Answer: A

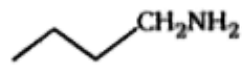
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15. Choose the appropriate product for this reaction.





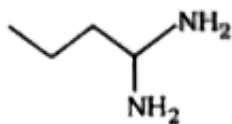
A.



B.



C.



D.

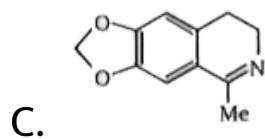
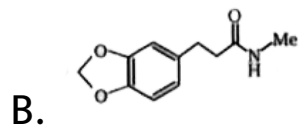
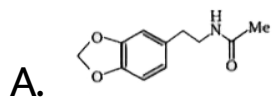
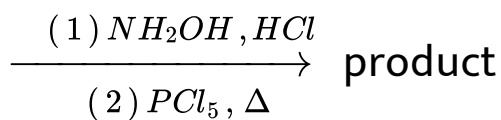
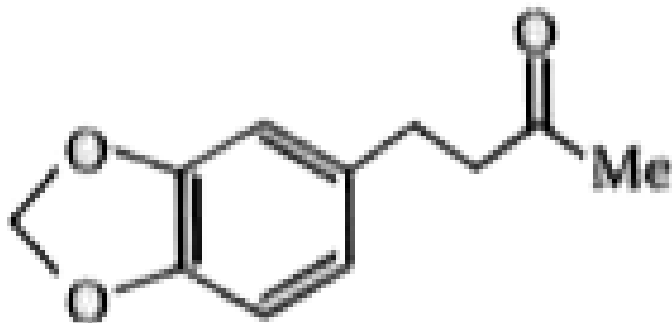
Answer: B



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16. Which of the following product will be obtained in the given (consider minor product

also) Beckmann-type rearrangement ?



D. all of these

Answer: D



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17. Deamination (or) diazotization of $n - Bu - NH_2$ with $NaNO_2 / HCl$ gives.....isomeric butene.

A. 2

B. 3

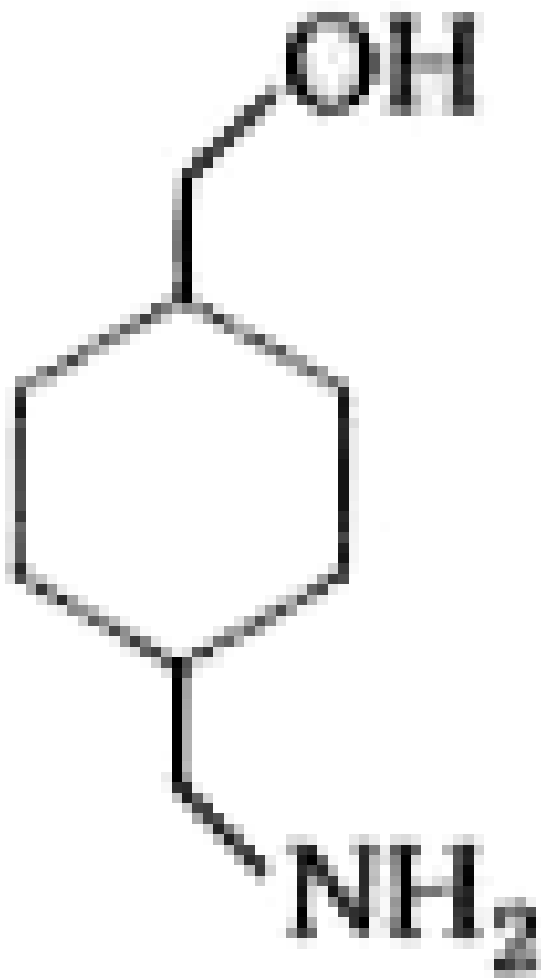
C. 4

D. 5

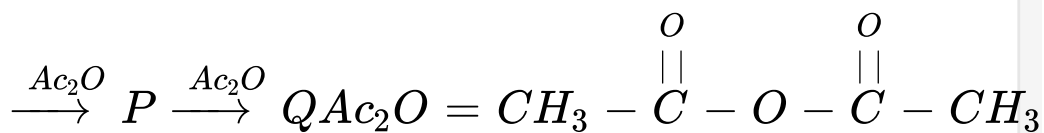
Answer: B



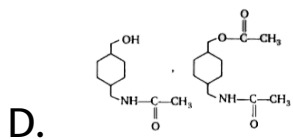
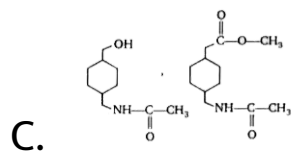
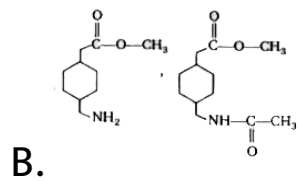
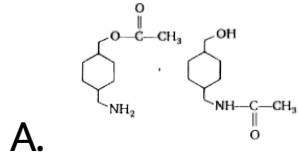
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18.



P and Q respectively are :

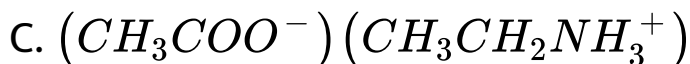
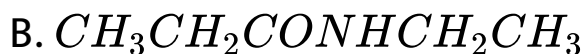


Answer: D



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19. A nitrile X is treated with $LiAlH_4$ to obtain compound Y (C_2H_7N). In a separate reaction X is hydrolyzed in an acid medium to obtain Z. The product obtained after mixing Y and Z will be

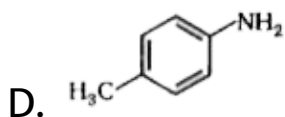
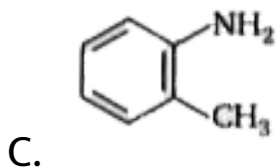
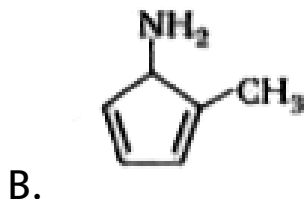
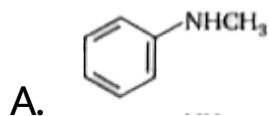


Answer: C



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20. The compound $X(C_7H_9N)$ reacts with benzenesulfonyl chloride to give $Y(C_{13}H_{13}NO_2S)$ which is insoluble in alkali. The compound X is



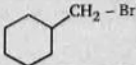
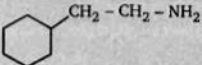
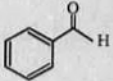
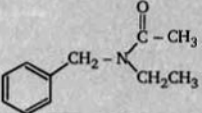

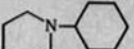
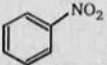
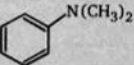

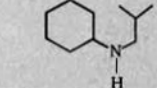
Answer: A




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Level 2

1. Five amine syntheses are outlined below. In each reaction box enter a single letter designating the best reagent and conditions selected from the list at the bottom of the page.

A.		First Step <input type="text"/> Second Step <input type="text"/>	
B.		First Step <input type="text"/> Second Step <input type="text"/> Third Step <input type="text"/>	
C.		First Step <input type="text"/> Second Step <input type="text"/>	
D.		First Step <input type="text"/> Second Step <input type="text"/>	
E.		First Step <input type="text"/> Second Step <input type="text"/> Third Step <input type="text"/> Fourth Step <input type="text"/>	

(a)	(i) LiAlH_4 in ether	(ii) H_2O & base	
(b)	$\text{C}_2\text{H}_5\text{NH}_2$ (cat. H^{+})		
(c)	NaCN in alcohol		
(d)	H_2 & Ni catalyst or H_2 & Pd catalyst		
(e)	NaN_3 in alcohol		
(f)	$(\text{CH}_3\text{CO})_2\text{O}$ & pyridine		
(g)	$\text{C}_2\text{H}_5\text{Br}$		

(h)		H^{\oplus}	
(i)	$2\text{CH}_3\text{I}$ & pyridine		
(j)	KOH in H_2O		

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