

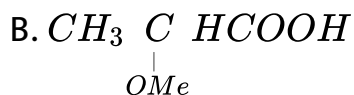
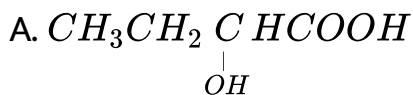
## CHEMISTRY

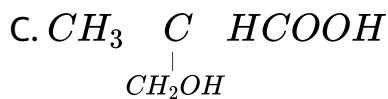
### BOOKS - CAREER POINT

### PRACTICE TEST - 5

#### Chemistry

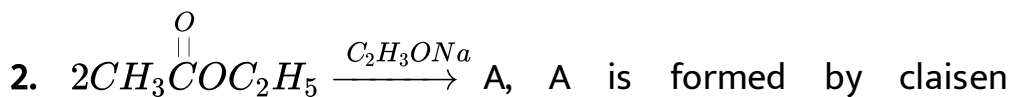
1. An optically active compound 'X' has molecular formula  $C_4H_8O_3$ . It evolves  $CO_2$  with aq.  $NaHCO_3$ . 'X' reacts with  $LiAlH_4$  to give achiral compound. 'X' is -





Answer: C

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condensation. Which is/are true about A ?

(a) A forms oximes (b) A Shows tautomerism (c) A shows

iodoform test

A. a and b

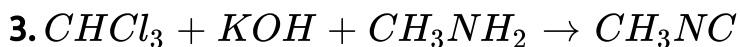
B. b and cs

C. a and c

D. a,b and c

**Answer: D**

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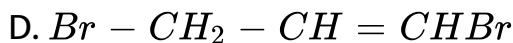
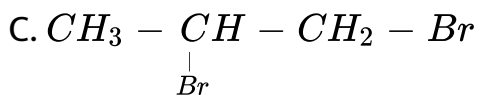
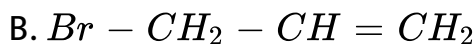
This reaction is called as -

- A. Frankland reaction
- B. Carbylamine reaction
- C. Wurtz reaction
- D. Finkelstein reaction

**Answer: B**

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4. Product of bromination of propene with N-bromosuccinimide will be

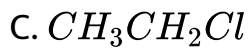
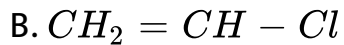
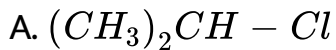


**Answer: B**



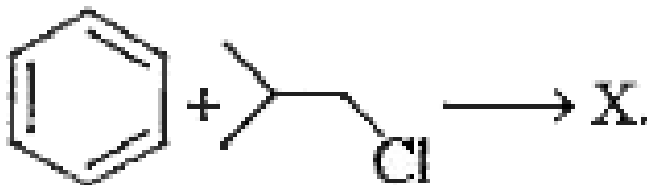
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5. Which of the following is least reactive in a nucleophilic reaction ?



Answer: B

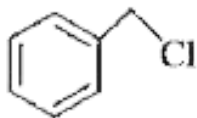
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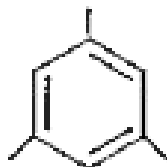
6.

Compound x is-

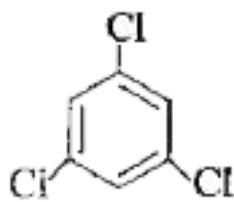
A.



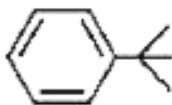
B.



C.



D.

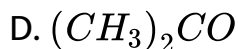
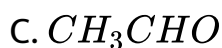
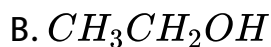
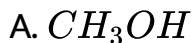


**Answer: D**



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7. Iodoform cannot be prepared by reacting which the following with NaOH and iodine



**Answer: A**

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8. Which of the following is responsible for the higher boiling point of an alcohol than that of an alkyl halide of comparable molecular mass

- A. Vander Waals attraction
- B. Dipole-dipole attraction
- C. Intermolecular hydrogen bonding
- D. Dipole-induced dipole attraction

**Answer: C**



[View Text Solution](#)

9. Glycol when treated with aq.  $HIO_4$  the product formed is -

- A. Only acetone
- B. Only methanal
- C. Only ethanoic acid
- D. Mixture of (1) and (2)



**Answer: B**



**View Text Solution**

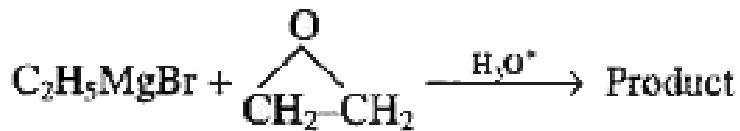
**10. Williamson's synthesis involves -**

- A.  $SN^1$  mechanism
- B. Nucleophilic addition reaction
- C.  $SN^2$  mechanism
- D.  $S_E$  mechanism

**Answer: C**

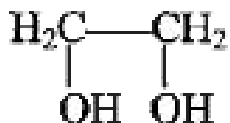
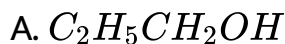


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11.

The product formed in the above reaction will be -



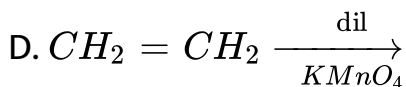
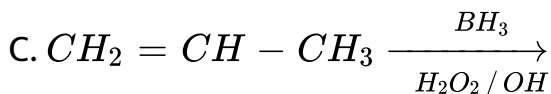
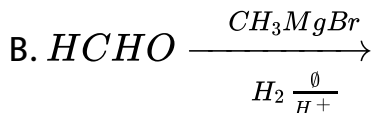
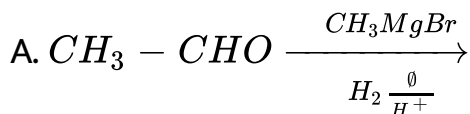
C.



**Answer: D**

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12. Which of the following reaction will yield, 2-Propanol?

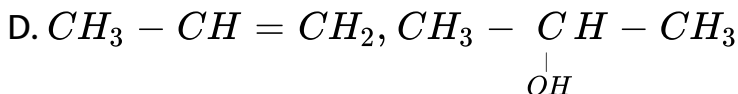
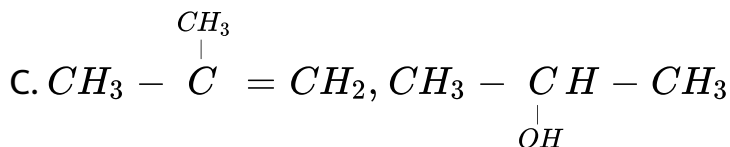
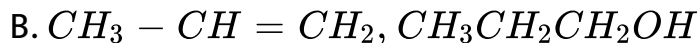
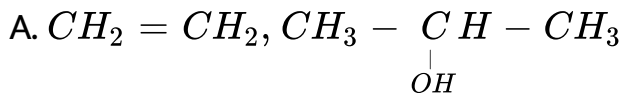


**Answer: A**



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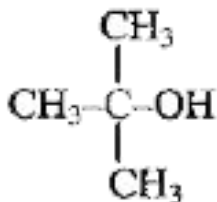
13. Which of the following alkene and alcohol are needed to prepare di-isopropyl ether by alkoxymercuration-demercuration method -

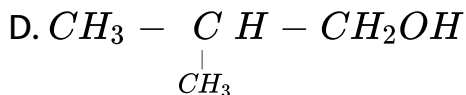
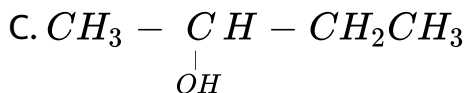
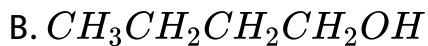


Answer: D

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14. The compound which gives most stable carbocation on dehydration with an acid is -





**Answer: A**



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15. There are four alcohols, P, Q, R and S which have 3, 2, 1 and zero alpha hydrogen atom (s) respectively. Which does not give the Victor-Meyer's test?

A. Q

B. P

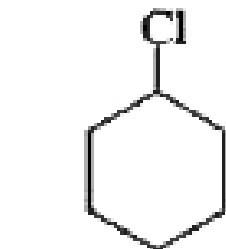
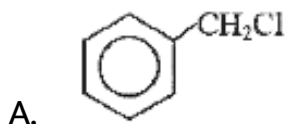
C. R

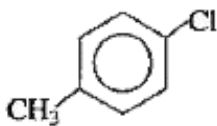
D. S

Answer: D

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16. Which of the following will be the least reactive towards nucleophilic substitution ?





C.

D.  $C_2H_5Cl$

**Answer: C**

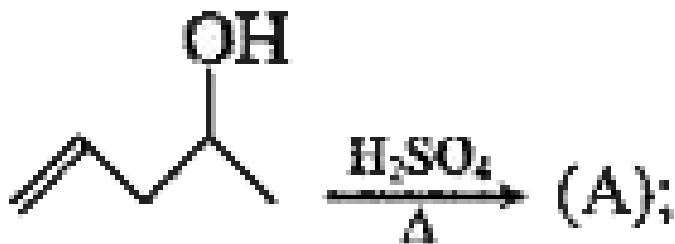
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17. A new carbon-carbon bond formation is involve in

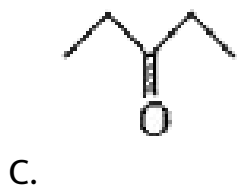
- A. Cannizzaro reaction
- B. Friedel Crafts alkylation
- C. Clemmensen reduction
- D. All the above

Answer: B

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Product (A) is -





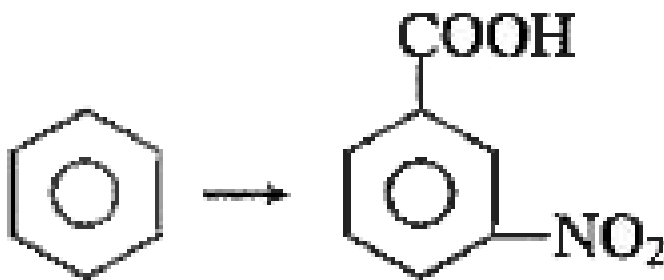
D.



Answer: B

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19. Which is the best method for carrying out the following reaction -



A.  $HCOOH, HNO_3 / H_2SO_4$

B.  $CH_3Cl / AlCl_3, HNO_3 / H_2SO_4, KMnO_4 / H^+$  heat

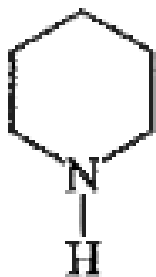
C.  $CH_3Cl / AlCl_3, KMnO_4 / H^+, \text{heat}, HNO_3 / H_2SO_4$

D.  $HNO_3 / H_2SO_4, CH_3Cl / AlCl_3, KMnO_4 / H^+, \text{heat}$

Answer: C

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20. Which of the following give positive isocyanide test?



A.

B.  $CH_3 - NH_2$

C.  $CH_3 - NH - CH_3$



D.

**Answer: B**

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21. Acetophenone is formed from the oxidation of -

A.  $\beta$ -phenyl ethylalcohol

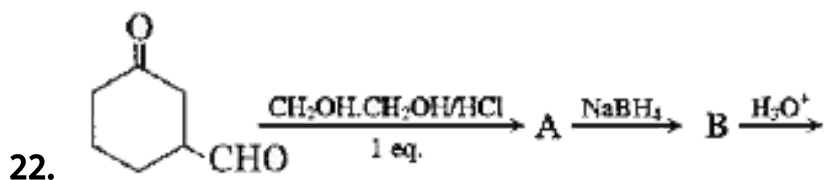
B. 2-phenyl-1-propanol

C. 1-phenyl-2-propanol

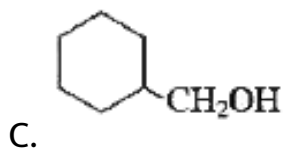
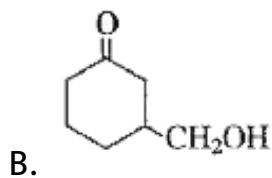
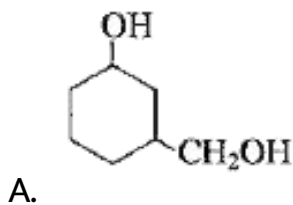
D. 1-phenyl ethanol

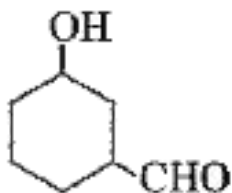
Answer: D

 View Text Solution



C, the end product C will be



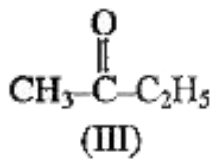
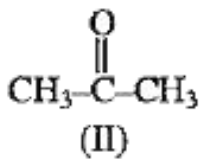
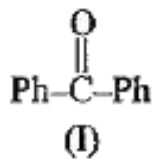


D.

Answer: D

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23. The correct order of reactivity of  $\text{PhMgBr}$  with



A.  $I > II > III$

B.  $III > II > I$

C.  $II > III > I$

D.  $I > III > II$

**Answer: C**



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**24.** Insulin regulates the metabolism of:

A. minerals

B. amino acids

C. glucose

D. vitamins

**Answer: C**



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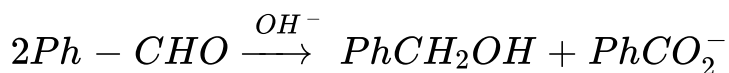
25. Base catalysed aldol condensation occurs in

- A. Benzaldehyde
- B. 2-methyl propanal
- C. 2,2-Dimethyl propanal
- D. None of these

**Answer: B**

 [View Text Solution](#)

26. In the Cannizzaro reaction given below:



the slowest step is -

- A. The attack of OH at the carbonyl group
- B. The transfer of hydride ion to the carbonyl group
- C. The abstraction of proton from carboxylic acid
- D. The deprotonation of  $PhCH_2OH$

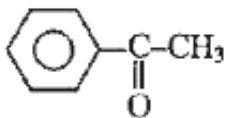
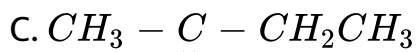
**Answer: B**

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27. The compound which gives a crystalline product on reaction with sodium bisulphite and reduces ammoniacal silver nitrate is -

- A.  $CH_3CH_2CHO$
- B.  $CH_3CH_2OH$

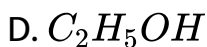
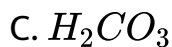
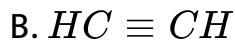
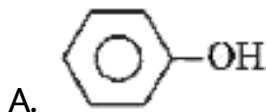




Answer: A

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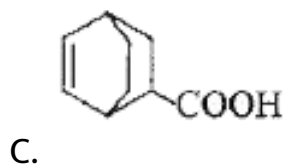
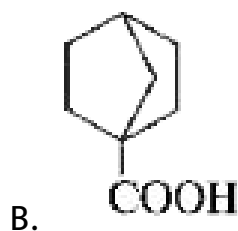
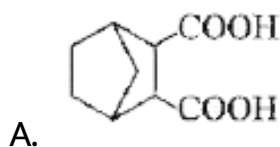
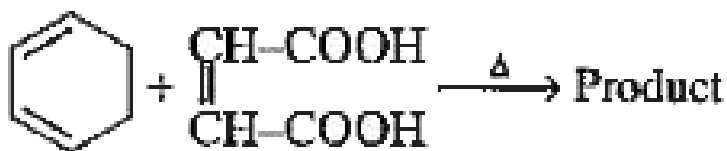
28. Which of the following is weakest acid among the following

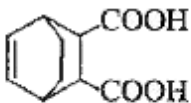


Answer: B

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29. In the following reaction, the product is :





D.

**Answer: D**

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**30.** What will be the product when ethyl acetate is treated with sodium ethoxide in ethanol ?

- A. Aspirin
- B. Malonic ester
- C. Ethyl butyrate
- D. Aceto acetic ester

**Answer: D**



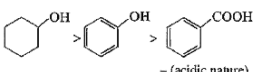
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31. Which of the following order is incorrect ?

A.  $HCOOH > CH_3COOH > CH_3CH_2COOH$  -(acidic nature)

B. Benzamide < aniline < cyclohexylamine -(acidic nature)

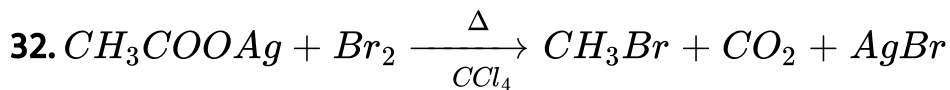
C.  $FCH_2COOH > ClCH_2COOH > BrCH_2COOH$  -  
(acidic nature)

D.  - (acidic nature)

Answer: D



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The above reaction is known as

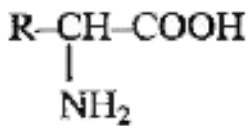
- A. Hunsdiecker reaction
- B. Wurtz-Fittig reaction
- C. Mustard oil reaction
- D. Hofmann bromamide reaction

**Answer: A**

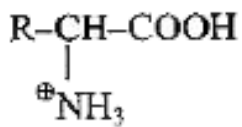


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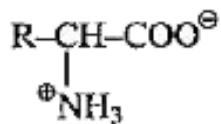
33. At the isoelectric point for amino acid, the species present is -



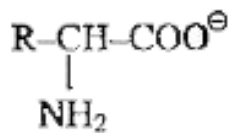
A.



B.



C.

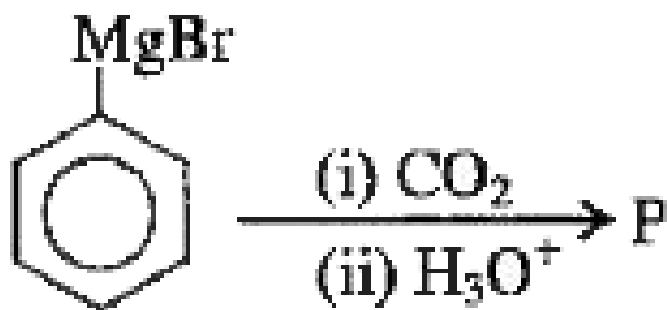


D.

**Answer: C**

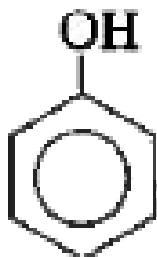


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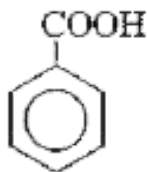


34.

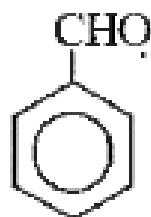
In the above reaction, product 'P' is -



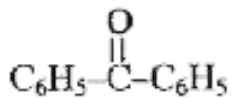
A.



B.



C.

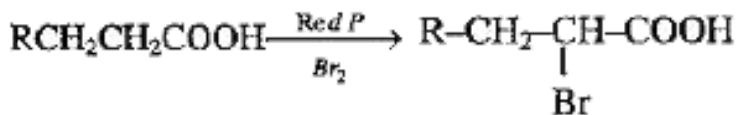


D.

**Answer: B**

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35. The reaction



is called as -

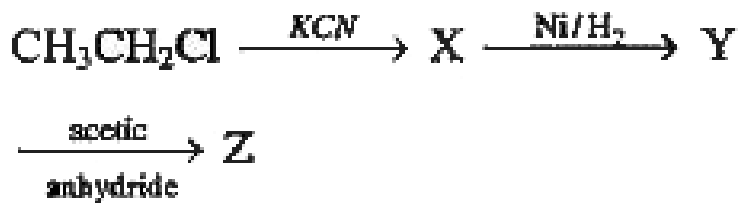
- A. Reimer-Tiemann reaction
- B. Sandmeyer reaction
- C. Cannizzaro reaction



## D. Hell-Volhard Zelinsky reaction

Answer: D

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36.

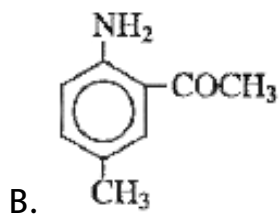
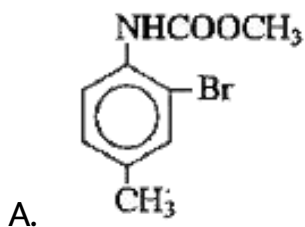
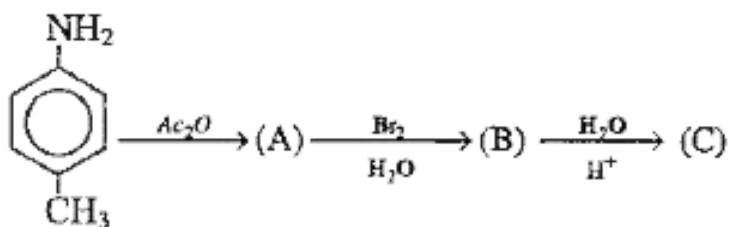
'Z' in the above reaction sequence is -

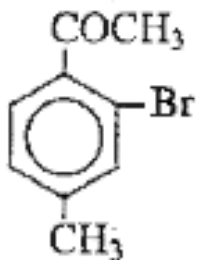
- A.  $\text{CH}_3\text{CH}_2\text{CONHCOCH}_3$
- B.  $\text{CH}_3\text{CH}_2\text{CH}_2\text{NHCOCH}_3$
- C.  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CONHCH}_3$
- D.  $\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$

Answer: B

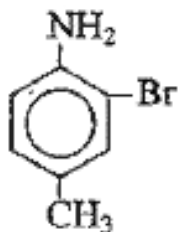
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37. The final end product (C) obtained in this reaction





C.



D.

Answer: D

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38.  $\text{CH}_3\text{CH}_2\text{NH}_2$  and  $\text{CH}_3 - \text{NH} - \text{CH}_3$  are

A. Functional isomers

B. Position isomers

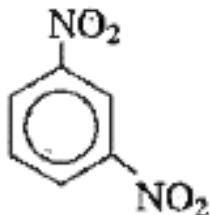
C. Enantiomers

D. Geometrical isomers

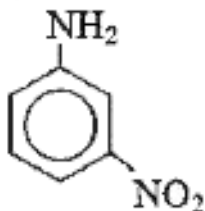
**Answer: A**

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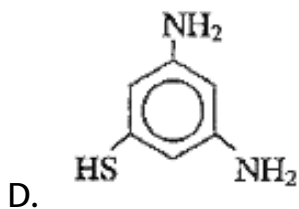
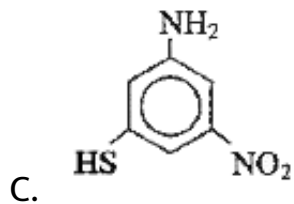
**39.** The major product (70% to 80%) of the reaction between m-dinitrobenzene with  $NH_4HS$  is -



A.



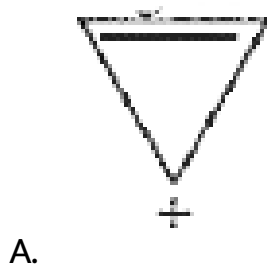
B.

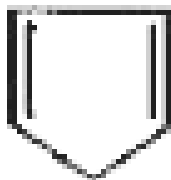


Answer: B

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40. Among the following the aromatic compound is -





B.



C.



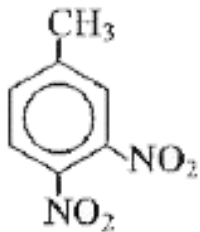
D.



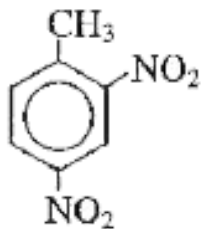
**Answer: A**

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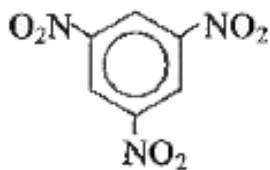
41. p-nitrotoluene on further nitration gives :



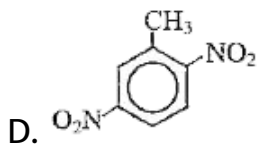
A.



B.



C.



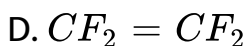
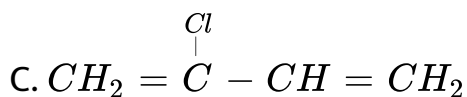
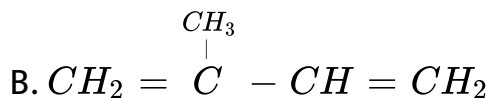
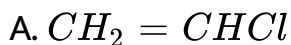
D.

**Answer: B**



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42. Which one of the following monomers gives the polymer neoprene on polymerization -



**Answer: C**



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43. Acetylation of milk sugar give -

A. Hepta-Acetyl product



B. Octa-Acetyl product

C. Hexa-Acetyl product

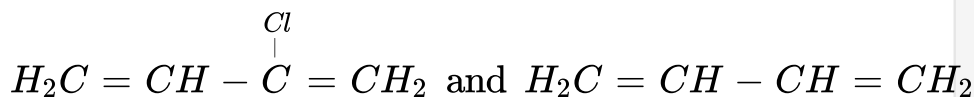
D. Glucosazone & Glucosone

**Answer: B**

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**44.** Buna-N (synthetic rubber) is a copolymer of

A.



B.  $H_2C = CH - CH = CH_2$  and  $H_5C_6 - CH = CH_2$

C.  $H_2C = CH - CN$  and  $H_2C = CH - CH = CH_2$

D.  $H_2C = CH - CN$  and  $H_2C = CH - \underset{\underset{CH_3}{|}}{C} = CH_2$

**Answer: C**



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