



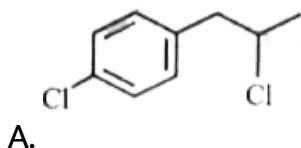
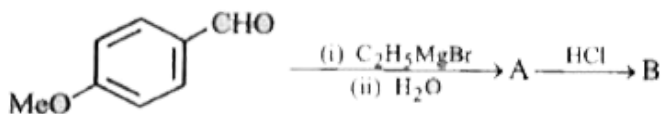
CHEMISTRY

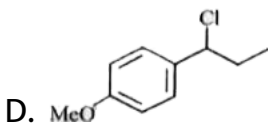
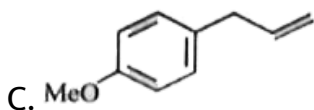
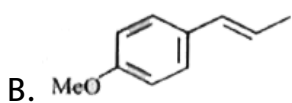
BOOKS - DISHA PUBLICATION CHEMISTRY (HINGLISH)

ALDEHYDES, KETONES AND CARBOXYLIC ACIDS

Jee Main 5 Years At A Glance

1. The major product B formed in the following reaction sequence is :





Answer: D

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2. Which one of the following will most readily be dehydrated in acidic condition?

A. 4-Hydroxypentan-2-one

B. 3-Hydroxypentan-2-one

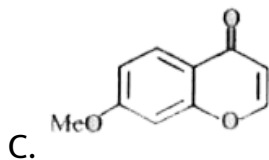
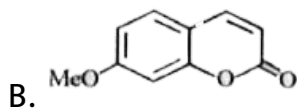
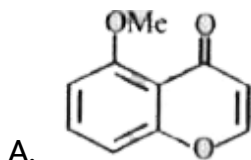
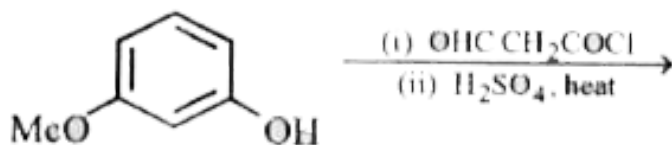
C. 1-Pentanol

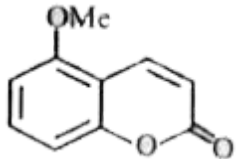
D. 2 - Hydroxycyclopentanone

Answer: A

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3. The major product of the given reaction is :



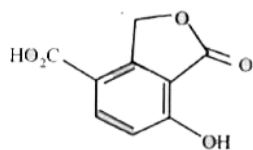
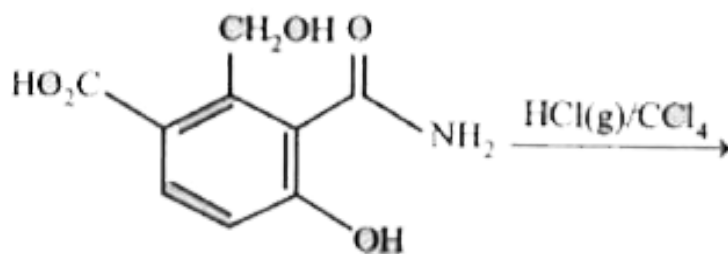


D.

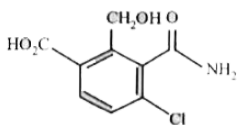
Answer: B

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4. The major product expected from the following reaction is :

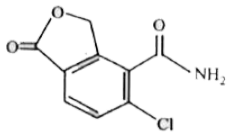


A.

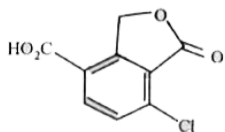


B.

C.



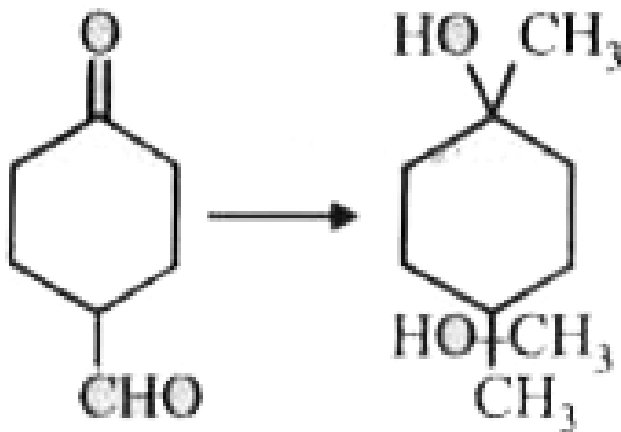
D.

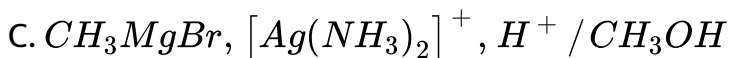
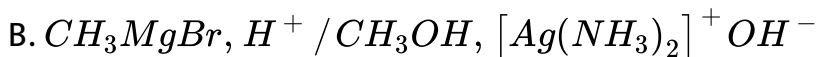
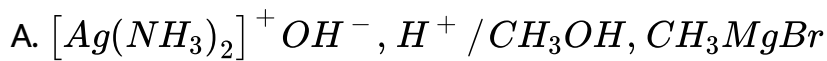


Answer: C

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5. The correct sequence of reagents for the following conversion will be :



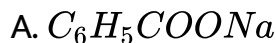


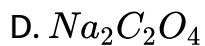
Answer: A



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6. Sodium salt of an organic acid 'X' produces effervescence with conc. H_2SO_4 . 'X' reacts with the acidified aqueous $CaCl_2$ solution to give a white precipitate which decolourises acidic solution of $KMnO_4$. 'X' is

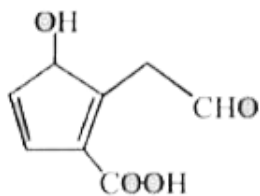




Answer: D

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7. The major product obtained in the following reaction is :



A.

B. 

C. 

D. 

Answer: B



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8. Bouveault - Blanc reduction reaction involves :

A. Reduction of an acyl halide with H_2 / Pd

B. Reduction of an anhydride with $LiAlH_4$

C. Reduction of an ester with Na / C_2H_5OH

D. Reduction of a carbonyl compound with Na / Hg and HCl .

Answer: C



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9. The correct statement about the synthesis of erythritol ($C(CH_2OH)_4$) used in the preparation of PETN is :

- A. The synthesis requires three aldol condensation and one Cannizzaro reaction.
- B. Alpha hydrogens of ethanol and methanol are involved in this reaction.
- C. The synthesis required two aldol condensations and two Cannizzaro reactions.
- D. The synthesis requires four aldol condensations between methanol and ethanol.

Answer: A



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10. In the presence of a small amount of phosphorous, aliphatic carboxylic acids react with chlorine or bromine to yield a compound in which α -hydrogen has been replaced by halogen.

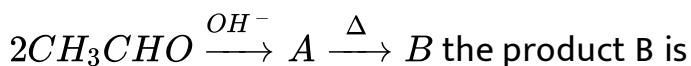
This reaction is known as :

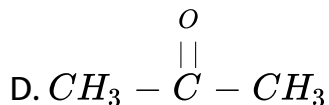
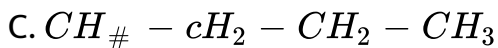
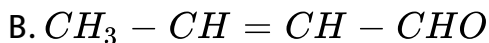
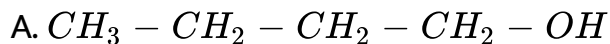
- A. Wolff - Kishner reaction
- B. Rosenmund reaction
- C. Etard reaction
- D. Hell - Volhard - Zelinsky reaction

Answer: D

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11. In the reaction sequences





Answer: B



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12. Which compound will yield 5-keto -2 methyl hexanal upon treatment with O_3 ?



D. 

Answer: D

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13. Which one of the following reactions will not result in the formation of carbon - carbon bond?

A. Reimer - Tieman reaction

B. Friedel Craft's acylation

C. Wurtz reaction

D. Cannizzaro reaction

Answer: D

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14. Which is the major product formed when acetone is heated with iodine and potassium hydroxide ?

A. Iodoacetone

B. Acetic acid

C. Iodoform

D. Acetophenone

Answer: C



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15. Tischenko reaction is a modification of

A. Aldol condensation

B. Claisen condensation

C. Cannizzaro reaction

D. Pinacol - pinacolon reaction

Answer: C



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16. Phthalic acid reacts with resorcinol in the presence of concentrated H_2SO_4 to give:

A. Phenolphthalein

B. Alizarin

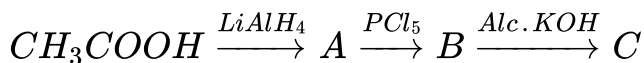
C. Coumarin

D. Fluorescein

Answer: D



17. In the reaction



The product C is

- A. Acetaldehyde
- B. Acetylene
- C. Ethylene
- D. Acetyl chloride

Answer: C

1. Calcium acetate on heating gives

A. acetic anhydride

B. acetone

C. acetaldehyde

D. ethyl alcohol

Answer: B



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2. Benzaldehyde can be prepared by the hydrolysis of

A. benzal chloride

B. benzotrichloride

C. benzyl chloride

D. benzonitrile

Answer: A

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3. The orbital picture of a singlet carbene (CH_2) can be drawn as

A. 

B. 

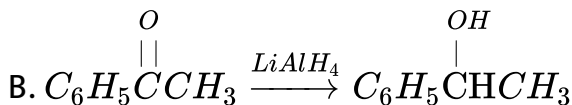
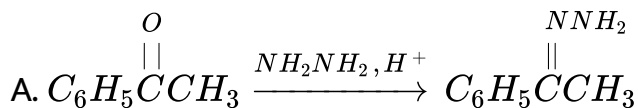
C. 

D. none of these

Answer: A

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4. Which of the following is an example of nucleophilic addition ?



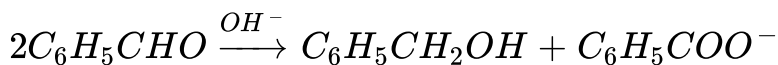
C. Both (a) & (b)

D. None of these

Answer: C

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5. In the Cannizzaro reaction given below



the slowest step is

- A. attack of OH^- at the carbonyl group.
- B. transfer of hydride ion to the carbonyl group.
- C. abstraction of proton from the carboxylic acid.
- D. deprotonation of $C_6H_5CH_2OH$.

Answer: B

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6. Which of the following acts as a nucleophile in the Cannizzaro reaction involving benzaldehyde ?

- (i) OH^- (ii) \bar{C}_6H_4COH
- (iii) $C_6H_5CH(OH)O^-$ (iv) $H_2\ddot{O}:$

A. (i) and (iv)

B. (i) and (ii)

C. (i) and (iii)

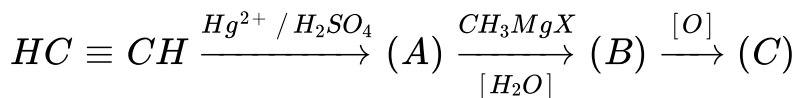
D. only (i)

Answer: C



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7. In the following sequence of reaction, the end product is :



A. acetic acid

B. isopropyl alcohol

C. acetone

D. ethanol

Answer: C

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8. Acid catalysed hydrolysis of the cyclic acetal gives



- A. ethanal and 2 - chlorocyclohexanol
- B. ethanol and 2 - chlorocyclohexanol
- C. 1, 2 - ethanediol and 2 - chlorocyclohexanone
- D. 1, 2 - ethanediol 2 - chlorocyclohexanol

Answer: C

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9. What is the product of the following reaction?



- A. 2 - methyl -1- pentene
- B. 4 - methyl - 1 - pentene
- C. 2 - methyl - 2 - propyloxirane
- D. 1 - pentene

Answer: A



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Exercise 1 Concept Builder Topicwise Topic 2 Properties Of Carbonyl Compounds

1. Which of following compound is hemiacetal ?

A. 

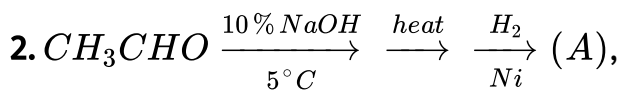
B. 

C. 

D. all of these

Answer: D

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Product (A) of the reaction is

A. propanol

B. ethanol

C. butanol

D. pentanol

Answer: C





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3. The presence of unsaturation in organic compounds can be tested with

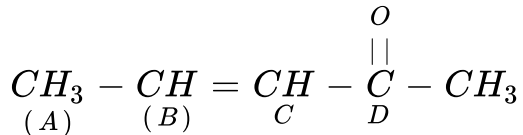
- A. Schiff's reagent
- B. Tollens' reagent
- C. Fehling's reagent
- D. Baeyer's reagent

Answer: D



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4. Which carbon atoms are most susceptible to nucleophilic attack?



A. A and B

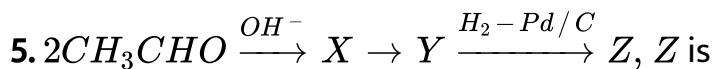
B. B and C

C. B and D

D. A and D

Answer: C

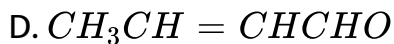
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A. $CH_3CH = CHCH_2OH$

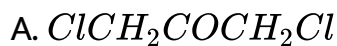
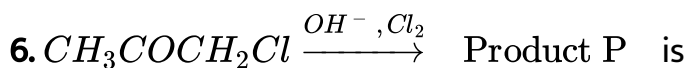
B. $CH_3CH_2CH_2CH_2OH$

C. $CH_3CH_2CH_2CHO$



Answer: C

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C. both a and b



Answer: B

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7. Formalin is an aqueous solution of

- A. fluorescein
- B. formic acid
- C. formaldehyde
- D. furfuraldehyde

Answer: C



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8. $(CH_3)_2C = CHCOCH_3$ can be oxidised to $(CH_3)_2C = CHCOOH$ by

- A. Chromic acid
- B. $NaOI$

C. Cu at $300^{\circ}C$

D. $KMnO_4$

Answer: B



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9. Aldehydes and ketones will not form crystalline derivatives with

A. sodium bisulphite

B. phenylhydrazine

C. semicarbazide hydrochloride

D. dihydrogen sodium phosphate.

Answer: D

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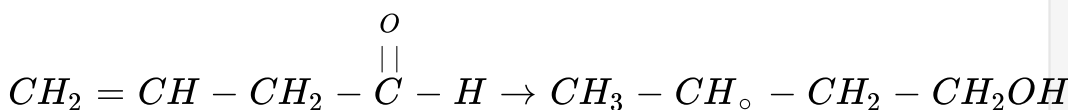
10. Which of the following compounds will undergo self aldol condensation in the presence of cold dilute alkali ?

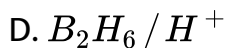
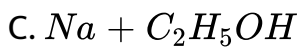


Answer: D

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11. Appropriate reducing agent for the following conversion is -



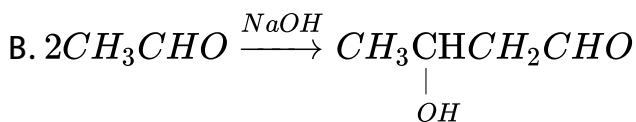


Answer: D



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12. Which of the following is a disproportionation reaction ?

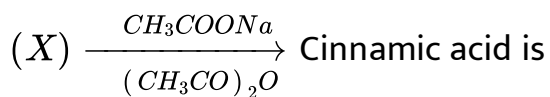


D. Both (a) & (b)

Answer: A

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13. The reactant (X) in the reaction,



A. 

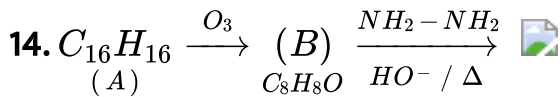
B. 

C. 

D. 

Answer: B

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Reactant (A) in this reaction is :

A. 

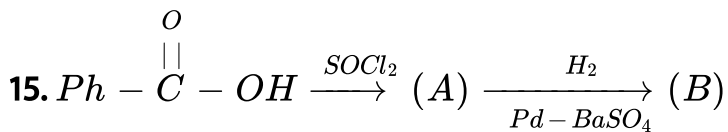
B. 

C. 

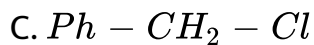
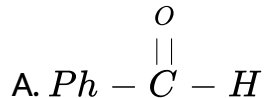
D. both (b) and (c)

Answer: D

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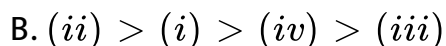
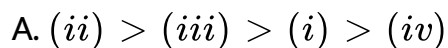
Product (B) is:



Answer: A

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16. Arrange the following carbonyl compounds in decreasing order of their reactivity in nucleophilic addition reaction.



C. $(iii) > (ii) > (i) > (iv)$

D. $(iii) > (i) > (iv) > (ii)$

Answer: B



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17. 

In the above reaction, product (B) is :

A. 

B. 

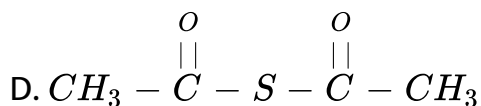
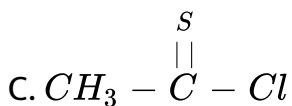
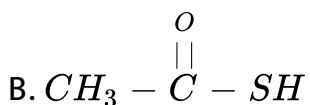
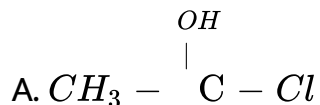
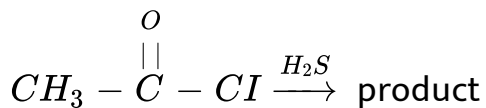
C. 

D. 

Answer: B



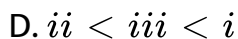
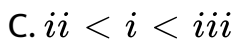
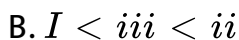
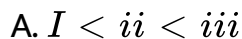
18. Which of the major product of the following reaction?



Answer: B



19. Arrange the following compounds in order of their reactivity toward $LiAlH_4$.



Answer: D



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20. Which one of the following compounds will be most readily dehydrated?

A. 

B. 

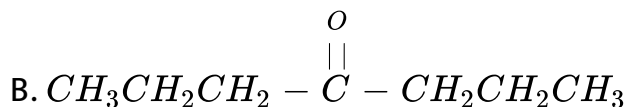
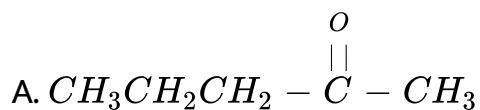
C. 

D. 

Answer: D

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21. Acetone is treated with excess of ethanol in the presence of hydrochloric acid. The product obtained is



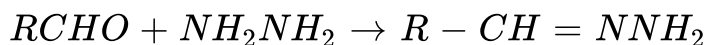
C. 

D. 

Answer: D

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22. Consider the reaction



What sort of reaction is it?

- A. Electrophilic addition - elimination reaction
- B. Free radical addition - elimination reaction
- C. Electrophilic substitution - elimination reaction
- D. Nucleophilic addition - elimination reaction

Answer: D

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23. Which of the following compounds will give a yellow precipitate with iodine and alkali?

(i) Acetophenone

(ii) Acetamide

(iii) Methyl acetate (iv) 2- Hydroxypropane

A. (i), (ii) and (iii)

B. (i) and (iv)

C. (ii) and (iv)

D. (i), (iii) and (iv)

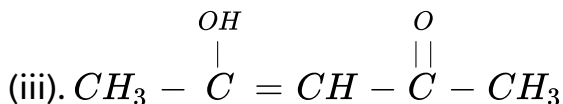
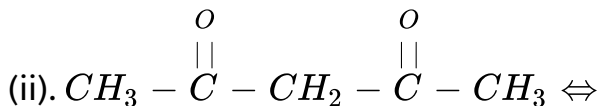
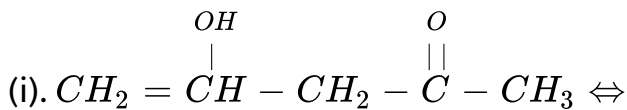
Answer: B



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24. The order of stability of the following tautomeric compounds

is



A. $III > II > I$

B. $II > I > III$

C. $II > III > I$

D. $I > II > III$

Answer: A



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25. Which one is most reactive towards nucleophilic addition reaction?

A. 

B. 

C. 

D. 

Answer: D



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26. An organic compound 'X' having molecular formula $C_5H_{10}O$ yield phenylhydrazone and gives negative response to the iodoform test and Tollens test . It produces n-pentane on reduction. 'X' could be

- A. 2 - pentanone
- B. 3 - pentanone
- C. n - amyl alcohol
- D. pentanal

Answer: B

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27. Reaction of carbonyl compound with one of the following reagents involves nucleophilic addition followed by elimination of water. The reagent is:

- A. a Grignard reagent
- B. hydrazine in presence of feebly acidic solution
- C. hydrocyanic acid

D. sodium hydrogen sulphite

Answer: B

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28. Of the following which is the product formed when cyclohexanone undergoes aldol condensation followed by heating?

A. 

B. 

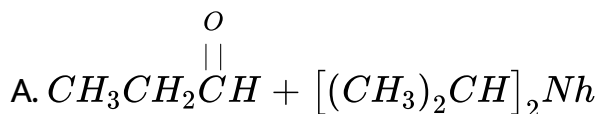
C. 

D. 

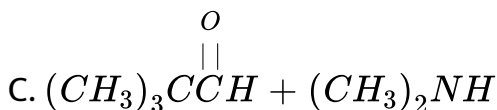
Answer: A

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29. Which of the following pairs of reactants is most effective in forming an enamine ?




B. 



D. None of these form an enamine.

Answer: C

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30.  $\xrightarrow{NH_2OH}$ (A) $\xrightarrow{H^+}$ (B) \xrightarrow{LAH} (C), Product (C) of the reaction is :

A. 

B. 


C. 

D. 

Answer: B



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31.  X, most likely the compound X is

A. 

B. 

C. 

D. 

Answer: B

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32. The compound shown below is the cyclic hemiacetal of



- A. 5 - hydroxyheptanal
- B. 6 - hydroxy - 3 - heptanone
- C. 5 - hydroxy - 2 - heptanone
- D. 6 - hydroxy heptanal

Answer: C

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33. What is the product of the following reaction ?



A.

B.

C.

D.

Answer: A



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34. The reagents employed to carry the following transformation



A. $LiAlH_4$, H_2SO_4 / heat

B. PCC / CH_2Cl_2 followed by HIO_4

C. $NaBH_4 / CH_3OH$ followed by HIO_4

D. O_3 followed by $(CH_3)_2S$

Answer: C



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35. The most acidic hydrogen for the following compound



A. 2

B. 1

C. 4

D. 3

Answer: A

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36. What is the product of the following reaction?



A. 

B. 

C. 

D. 

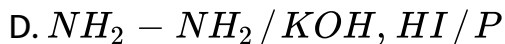
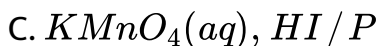
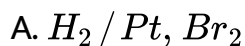
Answer: A

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Exercise 1 Concept Builder Topicwise Topic 3 Preparation And Properties Of Carboxylic Acids

1. 

In the above sequence of reaction X and Y are respectively



Answer: C



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2. Hydrolysis of an ester may be achieved under acidic as well as basic conditions. Pick up the correct statement regarding this

- A. Acidic hydrolysis is faster than alkaline hydrolysis.
- B. Alkaline hydrolysis is faster than acidic hydrolysis.
- C. Both occur at the same rate.
- D. In both, the first step is protonation of the $-OH$ part of the $-COOH$ group.

Answer: B



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3. When propionic acid is treated with aqueous sodium bicarbonate, CO_2 is liberated. The carbon of CO_2 comes from

- A. methyl group
- B. carboxylic acid group
- C. methylene group
- D. bicarbonate

Answer: D

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4. Formic acid is obtained when :

- A. calcium acetate is heated with conc. H_2SO_4
- B. calcium formate is heated with calcium acetate
- C. glycerol is heated with oxalic acid at 373 K
- D. acetaldehyde is oxidised with $K_2Cr_2O_7$ and H_2SO_4 .

Answer: C

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5. an ester is boiled with KOH. The product is cooled and acidified with conc. HCl. A white crystalline acid separates . The ester is

- A. methyl acetate
- B. ethyl acetate
- C. ethyl formate
- D. ethyl benzoate

Answer: D

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6. Cyanohydrin of the following compound on hydrolysis gives optically active product:

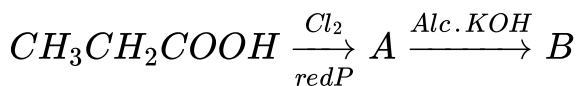
- A. diethyl ketone
- B. formaldehyde
- C. acetaldehyde
- D. acetone

Answer: C



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7. The compound B is :



- A. CH_3CH_2COCl

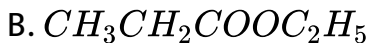


Answer: C



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8. Acetic anhydride reacts with diethyl ether in presence of anhydrous $AlCl_3$ to form



Answer: D

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9. $CH_3COOH \xrightarrow{\Delta} CH_3COCl$, What is A?

A. PCl_5

B. Cl_2

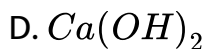
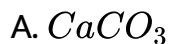
C. HCl

D. $COCl_2$

Answer: A

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10. The compound which is not soluble in acetic acid is

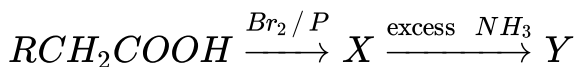


Answer: C

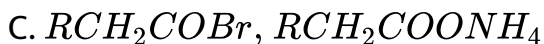
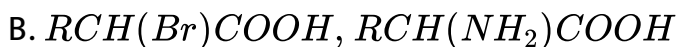
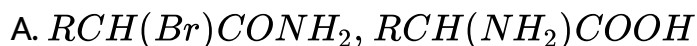


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11. In the following reaction



The major compounds X and Y are



D. $RCH(Br)COOH$, RCH_2CONH_2

Answer: B



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12. Iodoform reaction is given by

A. CH_3COOCH_3

B. $CH_3COOC_2H_5$

C. $C_6H_5COOCH_3$

D. $CH_3COOC_6H_5$

Answer: B



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13. Silver benzonate will react with bromine in acetone to give

A. 

B. 

C. 

D. 

Answer: C

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14. An ester $A(C_9H_{10}O_2)$ with excess of CH_3MgBr upon hydrolysis and then with conc. H_2SO_4 gives an olefin (B). Ozonolysis of (B) gave a ketone (C_8H_8O) which gave +ve iodoform test. What is A?

A. 

B. 

C. 

D. 

Answer: B



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15. Which one of the following is not resonance form of the enolate ion formed aceto acidic ester?

A. 

B. 

C. 

D. 

Answer: B



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16. (a) Give the Claisen ester condensation product of ethyl butanoate.

(b) Why does the Claisen ester condensation of ethyl-2-methyl propanoate (*I*) not take place ?

(c) Why does Claisen condensation of (*I*) take place by the use of $Ph_3C^{\ominus}Na^{\oplus}$ as a base ?

A. 

B. 

C. 

D. 

Answer: A

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17. Identify the missing reagent in the reaction given below



A. Diethyl carbonate $(EtO)_2C = O$

B. Ethyl acetate CH_3COOEt

C. Ethyl formate $HCOOEt$

D. Diethyl oxalate Et. $OOC \cdot COOEt$

Answer: A

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18. Which lactone is formed by heating the following hydroxy acid?



A.

B.

C.

D.

Answer: C



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19. The compound condensation of

A. ethyl - 2 - methyl pentanoate

B. ethyl - 5 - methyl hexanoate

C. ethyl - 4 - methyl pentanoate

D. ethyl - 3, 3 - dimethyl butanoate

Answer: C



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20. The correct product of the following reactions



A. 2, 2 - dimethyl propane diol

B. 2 - methyl -1 - propanol

C. 2, 2 - dimethyl propanedioic acid

D. 2 - methyl propanoic acid

Answer: A



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21. 

X and Y respectively are

- A. 5 - bromosalicylic acid and 5 - nitrosalicylic acid
- B. o - bromophenol and o - nitro - phenol
- C. 2, 4, 6 - tribromophenol and picric acid
- D. 3, 5 - dibromo salicylic acid and 3, 5 - dinitro salicylic acid

Answer: C



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Exercise 2 Concept Applicator

1. 

Product (B) is :

A. 

B. 

C. 

D. 

Answer: B



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2. 

$\xrightarrow[\Delta]{HO^-}$ (C) , Product (C) is
(72%)

Product (C) is :

A. 

B. 

C. 

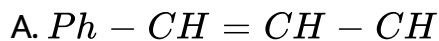
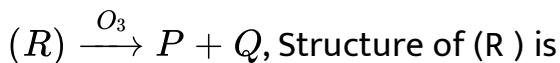
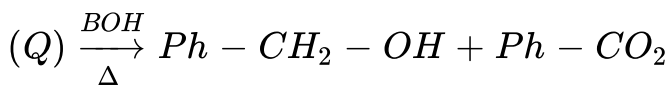
D. 

Answer: C

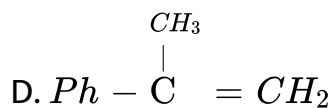
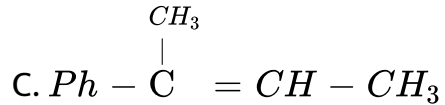


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3. 



B. 



Answer: B



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4. 

The respectively compounds A and B are

A. 

B. 

C. 

D. 

Answer: C



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5. 

From the ozonolysis products, the two isomers A and B can be distinguished with the help of

- A. Fehling solution
- B. Tollen's reagent
- C. Haloform test
- D. only spectroscopy

Answer: C



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6. 

Above compounds can be differentiated by following reagent :

A. 2 - 4 DNP (Brady reagent)

B. Tollen's reagent

C. Lucas reagent

D. $NaHSO_3$

Answer: B



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7. 

Product (B) in this reaction is :

A. 

B. 

C. 

D. 

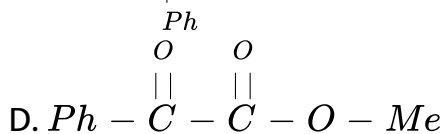
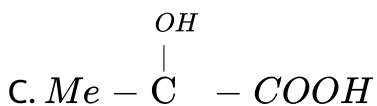
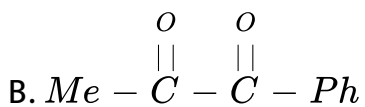
Answer: C

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8. 

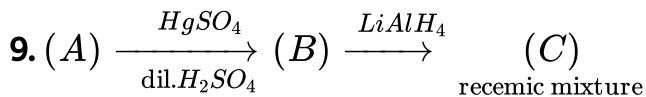
The product formed in the reaction is -

A. 

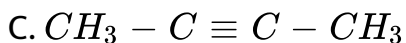
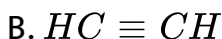
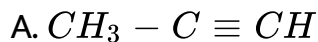


Answer: C

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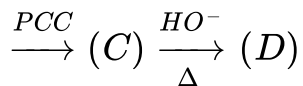
∴ reactant (A) is :



Answer: C

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10. 



What is the final product (D) of the sequence?

A. 

B. 

C. 

D. 

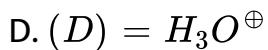
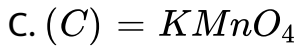
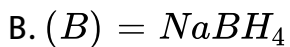
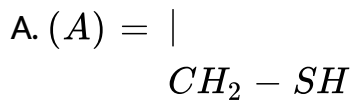
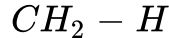
Answer: A



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11. 

Identify correct combination :



Answer: D



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12. Which of the following is the product of aldol condensation?



Answer: B

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13. Which of the following reagent(s) used for the conversion?



A. glycol/ $LiAlH_4$ / H_3O^+

B. glycol/ NaH / H_3O^+

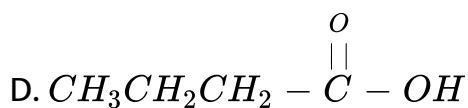
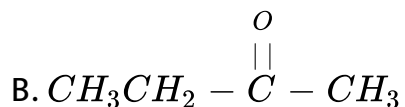
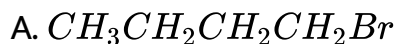
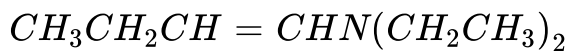
C. $LiAlH_4$

D. $NaBH_4$

Answer: A

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14. Which of the following reaction with $(CH_3CH_2)_2NH$ to give the compound?

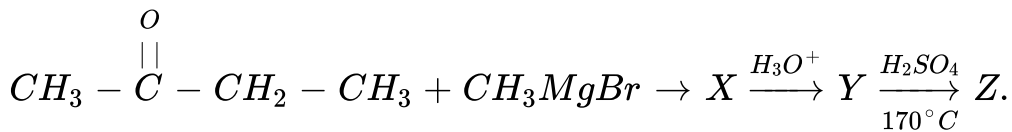


Answer: C

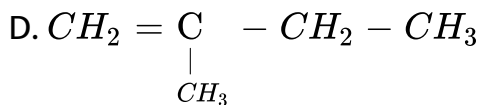
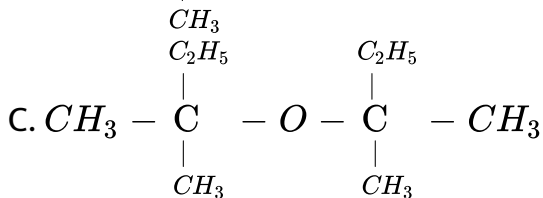
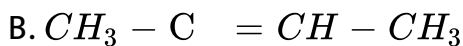
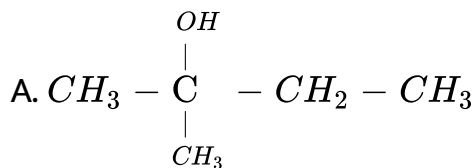


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15.

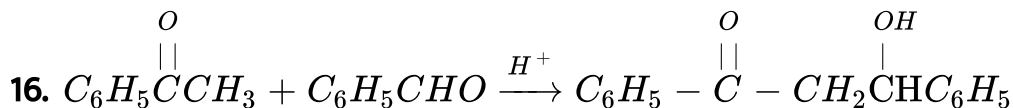


What is Z ?

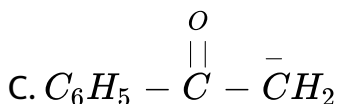
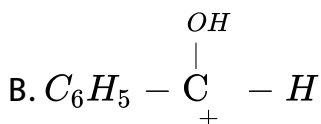
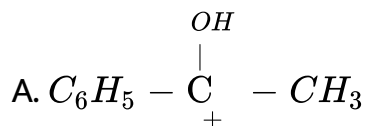


Answer: B

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The above aldol condensation does not involve the formation of



D. Both (a) and (b)

Answer: C

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17. The structure of the compound Y in the following reactions should be



A. 

B. 

C. 

D. 

Answer: C



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18. Reaction of cyclohexanone with dimethylamine in the presence of catalytic amount of an acid forms a compound if water during the reaction is continuously removed. The compound formed is generally known as

A. an amine an imine

B. an enamine

C. an enaine

D. a schiff's base

Answer: C



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19. The increasing order of the rate of HCN addition to compound A-D is

(A) HCHO

(B) CH_3COOH_3

(C) $PhCOCH_3$

(D) $PhCOPh$

A. $D < C < B < A$

B. $C < D < B < A$

C. $A < B < C < D$

D. $D < B < C < A$

Answer: A

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20. Which of the following statement is incorrect about the reaction of ammonia derivatives with carbonyl compounds?

A. pH of solution is maintained between 4 to 5

B. Addition of ammonia derivatives occurs followed by elimination of H₂O

C. At very low (less than 3) ammonia derivatives are protonated and do not act as nucleophile

D. At very high pH, reaction becomes explosive

Answer: D

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21. 

A. 

B. 

C. 

D. 

Answer: A

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22. 

Product A is :

A. 

B. 

C. 

D. 

Answer: C

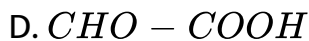
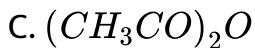
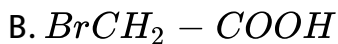


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23. 

The compound (X) is

A. CH_3COOH

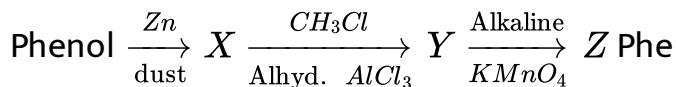


Answer: C



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24. What is Z in the following sequence of reactions?



A. Benzene

B. Toluene

C. Benzaldehyde

D. Benzoic acid

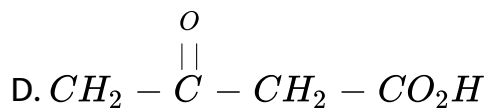
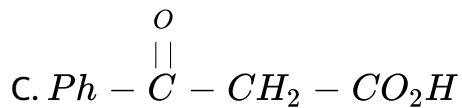
Answer: D

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25. Which β -keto acid shown will not undergo decarboxylation?

A. 

B. 



Answer: B

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26. The reaction of sodium with acetyl chloride proceeds through which of the following

A. 

B. 

C. 

D. 

Answer: C



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27. Calculate number of molecules of Grignard reagent consumed by 1 molecule of following compound.



A. 5

B. 2

C. 3

D. 1

Answer: A



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