



CHEMISTRY

BOOKS - ACCURATE PUBLICATION

ALDEHYDES ,KETONES AND CARBOOXALIC ACIDS

Part A Aldehydes And Ketones True And False 1 Mark

1. Aldehydes and ketones react with electrophiles

but not with nucleophiles.

2. Wolff Kishner reduction of acetophenone gives

toluene.

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3. Acetaldehyde can be reduced to ethane in the

presence of $LiAH_4$

4. Acetaldehyde can be prepared by dry distillation

of calcium acetate.

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Benzaldehyde cannot undergo Cannizzaro
 Reaction.

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6. Aldehydes are easily oxidised than ketones.

7. Benzaldehyde reduces Fehling Solution.

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8. ketones give nucleophilic addition reactions more readily.

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9. Ethers on hydrolysis give

10. Benzaldehyde forms addition product with sodium bisulphite but acetopheuone does not.



11. Calcium formate on heating gives acetaldehyde.

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12. The pK_a Value of formic acid is smaller than that of acetic acid.





13. The carbon-oxygen bond lengths in formic acid

are equal.



14. During the reaction of carboxylic acid with

 N_aHCO_3 .

15. When benzoic acid is heated with soda lime, benzene is formed.

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16. Iodide ion is a better nucleophile than bromide

ion.

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17. $Me_3CCH_2 - COOH$ is more acidic than Me_3SICH_2COOH .



18. Formic acid gives Silver mirror test Tollen's

reagent.

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Part A Aldehydes And Ketones Multiple Choice Questions 1 Mark

1. Why potato is considered as a stem?

2. Which of the following is used to make ropes?

A. cotton

B. wool

C. nylon

D. none of these

Answer: A



3. Nucleophilic addition will be most favored in :

A. CH_3CHO

 $\mathsf{B.}\,CH_3CH_2CH_2COCH_3$

 $\mathsf{C}.\,(CH_3)_2C=O$

D. CH_3CH_2CHO

Answer: A

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4. Which of the following compounds with molecular formula C_5H_{10} will yield acetone onozonolysis ?

- A. 3-Methylbut-l-ene
- B. Cyclopentane
- C. Cyclohexane
- D. 2,3-Dimenthylbut-2-ene

Answer: D



5. When a mixture of calcium acetate and calcium

formate is distilled, the product formed is:

A. Formaldehyde

B. Acetaldehyde

C. Acetone

D. None of these

Answer: B

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6. CH_3CHO and $C_6H_5CH_2CHO$ can be

distinguised chemically by :

A. Benedict's test

B. lodoform test

C. Tollen's reagent test

D. Fehlingissgolution test

Answer: B

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7. Which of the following reactions will not result

in the formation of C - C bond ?

A. Cannizzaro reaction

B. Wurtz reaction

C. Reimer-Tiemann Reaction

D. Friedal Crafts Reaction

Answer: A

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8. The general formula Cn $H_2 n O_2$ could be for open chain

A. Diketoncs

B. Carboxylic acids

C. Diols

D. Dialdehydes





9. The reagent which can be used to distinguish acetophenone from benzophenone is :

A. 2,4-Dinitrophenyl hydrazine

B. Benedict solution

C. Tollen's reagent

D. I_2 and Na_2CO_3

Answer: D



10. The strongest acid among the following compound is

A. HCOOH

B. CH_3COOH

 $\mathsf{C.} (CH_3)_3 CHCOOH$

D. $(CH_3)_3CCOOH$

Answer: A



11. Which of the following reagents may be used to

distinguish between phenol and benzoic acid ?

A. Tollen's reagent

B. Molisch reagent

C. Neutral férricohloride

D. Aqueous sodium hydroxide

Answer: C

12. When propionic acid is treated with aqueous sodium bicarbonate CO_2 is liberated the source of carbon dioxide comes from

A. methyl group

B. carboxylic acid group

C. methylene group

D. bicarbonate

Answer: D

13. Which of the following compounds will have

the smallest pK_a value ?

A. benzoic acid

B. formic acid

C. Acetic Acid

D. phenyl acetic acid

Answer: B



14. Which of the following cannot reduce Fehling solution?

A. Formic acid

B. Acetic Acid

C. formaldehyde

D. acetaldehyde

Answer: B

15. What is the main reason for the fact that carboxylic acid can undergo ionization ?

A. Absence of Alpha hydrogen

B. higher reactivity of c-hydrogen

C. resonance stabilization of carboxylate Ion

D. hydrogen bonding

Answer: C

16. When 2-hydroxy benzoic acid is distilled with

zinc dust is gives

A. phenol

B. benzoic acid

C. benzaldehyde

D. a polymeric product

Answer: B

17. Which of the following is ortho-para directing group ?

- A. $-NHCOCH_3$
- $B.-NO_2$
- $\mathsf{C}.-CN$
- D. CHO

Answer: A



18. Which of the following is a meta directing group ?

A. $-NHCOCH_3$

 $\mathsf{B.}-COOH$

C. - OH

D. $-\mathbb{C}H_3$

Answer: B

19. In Cannizzaro reaction, two molecules of aldehydes are reacted to produce :

A. Alcohol only

B. Carboxylic acid only

C. Alcohol and salt of carboxylic acid

D. Alcohol, carboxylic acid and ketone

Answer: C

20. HBr reacts fastest with ____

A. 2-methylpropan-2-ol

B. Propan-1-ol

C. Propan-2-ol

D. 2-methylpropan-1-o

Answer: A



21. Glycine and Alanine are different with respect to one substituent on the α -carbon. What are the other common substituent groups?



22. Which of the following substance produce acetaldehyde on drydistillation ?

A. $(CH_3COO)_2Ca$

 $\mathsf{B.}\,(HCOO)_2Ca$

C. Both A and B

D. None

Answer: C

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23. Which of the following aldehyde is a gas at

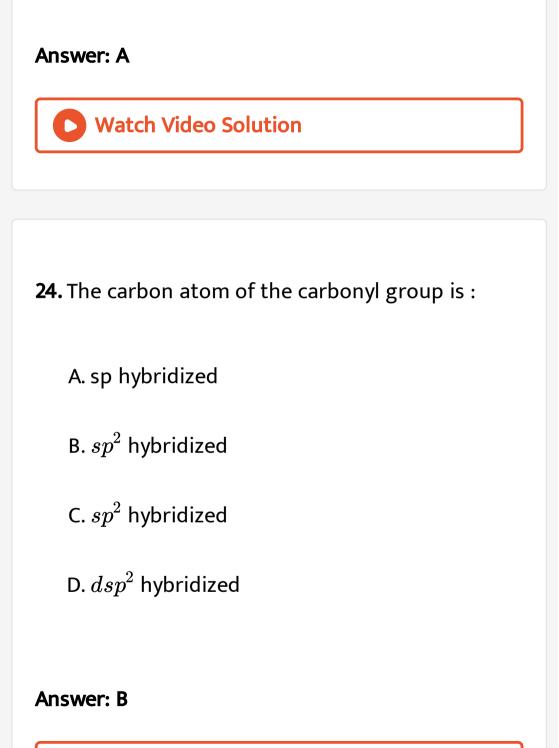
room temperature ?

A. Methanal

B. Ethanal

C. Propanal

D. Butanal



25. Formalin is% solution of formaldehyde in Water A. 10 % **B**. 20 % $\mathsf{C.}\,40\,\%$ **D.** 60 %

Answer: C



26. Which of the following substances does not

give iodoform test?

A. Acetaldehyde

B. Ethyl alcohol

C. Methyl alcohol

D. Acetone

Answer: C



27. Which of the following aldehydes shows rapid

reaction with sodium nitroprusside ?

A. formaldehyde

B. acetaldehyde

C. benzaldehyde

D. acetone

Answer: D

28. Which of the following reactions may be associated with aldehyde and ketone ?

A. Nucleophile addition

B. Polymerization

C. Oxidation

D. All of the above

Answer: D

29. Ketones are comparatively less reactive than

aldehydes. It is due to

A. Alkyl groups are clectron donating

B. Steric hindrance

C. Both A and B

D. None

Answer: C

30. Which of the following do not give aldol

condensation reactions ?

A. Formaldehyde

B. Acetaldehyde

C. Dimethyl ketonc

D. Propionaldehyde

Answer: A

31. Which of the following is not a antacid ?

A. phenelzine

B. Ranitidine

C. Aluminium hydroxide

D. Cemetidine

Answer: D



32. Formaldehyde and lactose are combined to

produce throat lozenges named as

A. Form a mint

B. Lac to mint

C. Aldo mint

D. Formalactose

Answer: A

33. The formula of haloform is :

C Wa	ch Video	Solution	
D Wa	ch Video	Solution	

34. Formaldehyde condenses with phenol in the presence of dilute H_2SO_4 to yield :

A. Nylon 66

B. urotropinc

C. Aniline formaldehyde plastic

D. Bakelite



35. On heating acetaldehyde, with Fehling's solution, we get a precipitate whose color is

A. Pink

B. Black

C. Yellow

D. Brick red

Answer: D



36. Which of the following will not give addition reaction with $NaHSO_3$

A. HCHO

 $\mathsf{B.}\,CH_3CHO$

 $\mathsf{C.}\,CH_3-CH_2-CHO$

D. None of the above

Answer: C



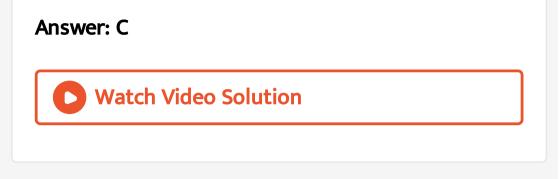
37. Write the empirical formula of the compounds

having the molecular formulas : C10H8



38. Aldehyde and ketone have same general formula for homologous series

- A. $CnH_{2n}O_{2n}$
- B. $C_n H_{2n}$
- $\mathsf{C.}\, C_n H_{2n} O$
- D. $C_n H_{2n} O_{n+1}$



39. Oxidation of primary alcohol gives :

A. Ketone

B. Aldehyde

C. Alkene then-COOH

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D. Ester

Answer: B

40. Nucleophilic addition reactions are catalyzed by:

A. Acid

B. Base

C. Both (a) and (b)

D. None

Answer: C

41. Ethanal is prepared industrially by air oxidation

of ethylene using palladium chloride as acatalyst

and as a promoter

A. $PdCl_2$

 $\mathsf{B.}\, Cu_2 Cl_2$

 $\mathsf{C}. CuCl_2$

D. $PbCl_2$

Answer: C

42. Acetaldehydc cyanohydrin on acid hydrolysis yields in

A. Tartaric acid

B. Propanoic acid

C. Lactic acid

D. Valeric acid

Answer: C

43. Acetal on acid hydrolysis generates

A. Alcohol

B. Ketone

C. Both A&B

D. None of the above

Answer: C



44. Which of the following is a symmetrical ketone

A. 3-hexanone

B. Acetone

?

C. 2-Butanone

D. 2-pentanone

Answer: B

45. In base catalyzed reaction of carbonyl compound the catalyst

A. Increases the nucleophilic character of reagent

B. Increases the electrophilic character of

carbonyl compound

C. Acidic character of reagent

D. Both A and B

Answer: A



46. What is the other name of ester-interchange reaction ?

A. Ketonolysis

B. Alcoholysis

C. Aldehyde

D. None of the mentioned

Answer: B

47. Complete the following reaction : C H 3 C H 2 B

 $r + K O H (a q) \rightarrow$



48. What is the disadvantage of hydrochloic Acid ?

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49. Which of the following carboxylic acids has the

highest boiling point?

A. Heptanoic acid

B. Octanoic Acid

C. Nonanoic Acid

D. Decanoic Acid

Answer: D

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50. The IUPAC name of $CH_3COCH(CH_3)_2$ is

51. The pi bond in carbonyl carbon is formed by

A. s-sover lapping

B. p-pover lapping

C. s-p overlapping

D. p-dover lapping

Answer: B

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52. Which of the following contain an aldehyde ?

A. Vanilla beans

B. Meadow sweet

C. Cinnamon

D. All of these

Answer: D

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53. Which of the following have pleasant smell?

A. Methanal

B. Propanal

C. Ethanal

D. Hexanal

Answer: D

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54. Which of the following can be oxidized to the corresponding carbonyl group ?

A. 2-hydroxy-propane

B. Ortho-nitro phenol

C. Phenol

D. 2-methyl-2-hydroxy-propane

Answer: A

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55. Which one of the following on oxidation gives aketone ?

A. Primary alcohol

B. Secondary alcohol

C. methyl alcohol

D. All of these



56. What is formed when primary alcohol undergoes catalytic dehydrogenation ?

A. Aldehyde

B. Ketone

C. Alkene

D. Acid

Answer: A



57. The catalyst used in Rosenmund's reduction is

A. $HgSO_4$

B. $Pd/BaSO_4$

C. Anhydrous AICI₃

D. Anhydrous $ZnCl_2$

Answer: B

58. The oxidation of toluene to benzaldehyde

bychromyl chloride is called

A. Rosenmund reaction

B. Wurtz reaction

C. Etard reaction

D. Fitting reaction

Answer: C



59. An aldehyde group can be present

- A. In between carbon chain
- B. At any position in carbon chain
- C. Only at the end of carbon chain
- D. At the second carbon atom of carbon chain

Answer: C



60. Which of the following is not used for the preparation of ketone ?

A. 1.Oxidation of secondary alcohols

B. 2. Dehydrogenation of secondary alcohols

C. 3. Pyrolysis of calcium acetate

D. 4. Acid hydrolysis of alkyl cyanide

Answer: D

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61. Which of the following forces explain the boiling point of aldehydes and ketones?

A. Hydrogen bonding

B. Vander waal's forces

C. Dipole-dipole interaction

D. None of these

Answer: C

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62. Which is highly soluble in water?

A. Methanal

B. Propanal

C. Propanone

D. Butanone



63. Acetone react with iodine to form iodoform in presence of:

A. $CaCO_3$

 $\mathsf{B.}\, NaOH$

 $\mathsf{C}.\,KOH$

D. $MgCO_3$

Answer: B



64. When glucose react with acetone in acidic medium, the main product is :

A. Laevulic acid

B. Glycosazone

C. Dioxopropylidene glucose

D. None of the above

Answer: C



65. The conversion ofBenzaldehyde into benzyl alcohol is known as:

A. Cannizzaro reaction

B. Kolbe's reaction

C. Friedal craft reaction

D. Wurtz scaction

Answer: A

66. Which salt on treatment with soda lime gives ethane?

A. Ethanoic acid

B. Methanoic acid

C. Propionic acid

D. Ether

Answer: C

67. When acetamidc reacts with Bromine in presence of NaOH, there is formation of:

A. CH_3NH_2

 $\mathsf{B.}\, CH_3 CH_2 OH$

 $\mathsf{C.}\,CH_3CN$

D. CH_3CHO

Answer: A

68. Which of the following does not give benzoic

acid on hydrolysis ?

A. Phenyl cyanide

B. Benzoyl chloride

C. Benzyl chloride

D. Methyl benzoate

Answer: C

69. The reagent which does not give acid chloride

on treating with carboxylic acid is :

A. PCl_5

B. Cl_2

C. $SOCl_2$

D. PCl_3

Answer: B

70. Conversion of carboxylic acid to an ester is known as

A. Reduction

B. Oxidation

C. Esterification

D. Polymerisation

Answer: D

71. By which reaction a Ketone can be converted into hydrocarbon ?

A. Aldol condensation

B. Reimer-Tiemann reaction

C. Cannizzaro reaction

D. Wolf-Kishner reaction

Answer: D

72. Which of the following cannot be used in Friedal-craft's reaction?

A. $FeCl_3$

B. $FeBr_3$

C. $AlCl_3$

D. NaCl

Answer: D

73. When dihydroxyacetone react with HIO_4 , the

product is/are :

A. HCHO

 $\mathsf{B}.\,HCOOH$

C. HCHO and HCOOH

D. HCHO and CO_2

Answer: D

74. Acetaldehyde reacts with NH_3 to form :

A. An acidic solution

B. A basic solution

C. A neutral solution

D. Urotropine

Answer: B



75. Reactivity towards nucleophilic addition reaction of I. HCHO II. CH₃CHO III. CH₃COCH₃ A. II > III > IB. III > II > IC.I > II > IIID.I > II > IIIAnswer: C

76. Aldol condensation will not be observed in

A. Ethanal

B. Hexanal

C. Phenyl acetaldehyde

D. Chloral

Answer: D

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77. The compound obtained by the reduction of propionaldehyde by amalgamated zinc and

concentrated HCl is

A. Propene

B. Propane

C. Propanol

D. All of the above

Answer: B

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78. When a ketone is condensed into an aldol, the

reagent used is

A. Alkali

B. $NaHCO_3$

C. Bromine water

D. Cl_2

Answer: A



79. How does O_3 react with H C l

80. Acetaldehyde cannot exhibit :

A. Tollen's test

B. Benedict's test

C. Lucas test

D. lodoform test

Answer: C

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81. Base catalyzed aldol condensation occurs with

- A. Propionaldehyde
- B. 2,2-dimethylpropionaldehyde
- C. Benzaldehyde
- D. None of the above

Answer: A

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82. Which of the aldehydes is most reactive towards nucleophilic addition?

A. HCHO

B. CH_3CHO

 $\mathsf{C.}\,C_6H_5-CHO$

D. All are equally reactive

Answer: A

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83. Aldehyde and ketones cannot be distinguished

by:

A. Molisch's test

B. Tollen's test

C. Benedict's test

D. Schiff's test

Answer: A

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84. Which of the following is incorrect?

A. $FeCl_3$ is used in the direction of phenol

B. Fehling solution is used in the detection of

glucose

C. Tollen's reagent is used in the detection of

unsaturation

D. $NaHSO_3$ is used in the detection of

carbonyl compounds

Answer: C

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85. Reduction of > C = O to CH_2 can be carried out

with :

A. Catalytic reduction

$\mathsf{B.}\,Na\,/\,C_2H_5OH$

$\mathsf{C.}\, NH_2 NH_2 \,/\, KOH$

D. $LiAIH_4$

Answer: C

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86. During reduction of carbonyl compound by $H_2 NNH_2$ and KOH the first intermediate is :

A. RC=N

 $\mathsf{B.}\,RCH=\mathbb{N}H_2$

C. RCH =NH

D. $RCONH_2$

Answer: B



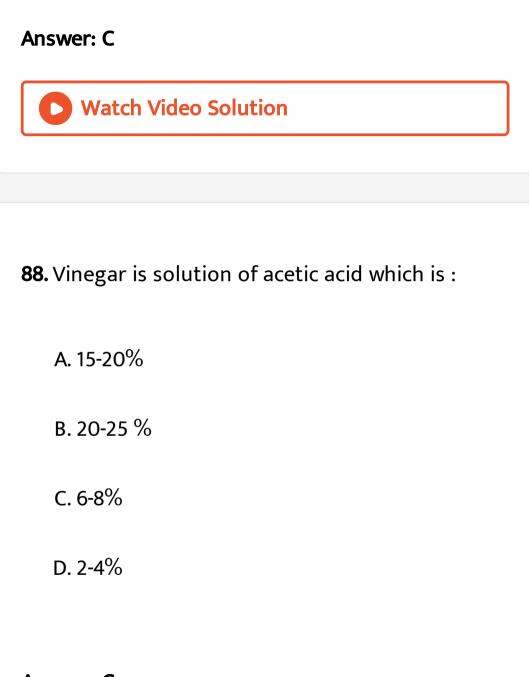
87. Cross aldol condensation occurs between

A. Two same aldehydes

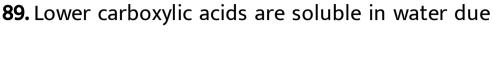
B. Two same ketones

C. Two different aldehydes and ketones

D. None of these



Answer: C



to

A. Low molecular weight

B. Hydrogen bonding

C. Dissociation into ions

D. Easy hydrolysis

Answer: B

90. Carboxylic acids are more acidic than phenols

and alcohols because of

A. Intermolecular hydrogen bonding

B. Formation of dimers

C. Highly acidic hydrogen

D. Resonance stabilization of conjugate base

Answer: D



91. The major product of nitration of benzoic acid is :

A. 3- Nitrobenzoic acid

B. 4- Nitrobenzoic acid

C. 2-Nitrobenzoic acid

D. 2,4-dinitrobenzoic acid

Answer: A

92. Which is false in case of carboxylic acids ?

A. They are polar molecules

B. They for H-bonds

C. They are stronger than mineral acids.

D. They have higher boiling point than

corresponding alcohols.

Answer: C

93. The elimination of CO2 from carboxylic acids is

known as

A. Hydration

B. Dehydration

C. Dehydration

D. Carboxylation

Answer: C

94. Which of the following has maximum acidic strength ?

A. o - Nitrobenzoic acid

B. m-Nitrobenzoic acid

C. p-Nitrobenzoic acid

D. p-nitro phenol

Answer: A

95. The product obtained by the reaction of an aldehyde and hydroxyl amine is :

A. Hyrdrazone

B. Aldoxime

C. Primary amine

D. Alcohol

Answer: B

96. The reagent which does not react with both acetone and benzaldehyde :

A. Sodium hydrogen sulphite

B. Phenyl hydrazine

C. Fehling's solution

D. Grignard Reagent

Answer: C

97. Fill in the blanks- The method of separating

pieces of stones from the grain is called___



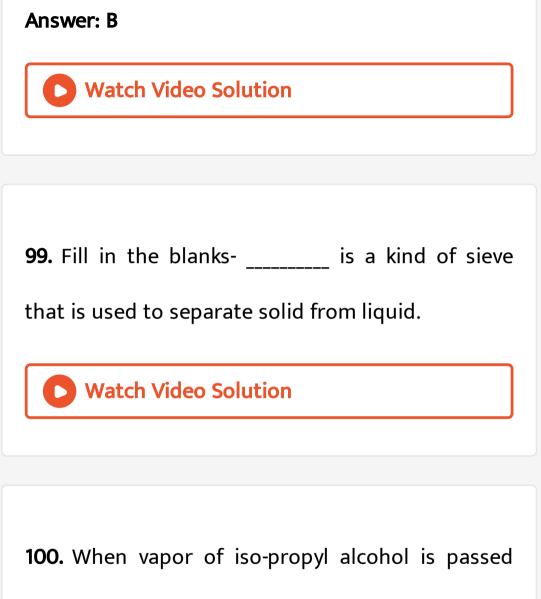
98. If formaldehyde and KOH are heated, then we get

A. Methane

B. Methyl alcohol

C. Ethyl formate

D. Acetylene



over heated copper, the major product obtained is

A. Propylene

B. Acetone

C. Propane

D. Acetaldehyde

Answer: B

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Part A Aldehydes And Ketones 1 Mark Questions

1. What is the name of the reaction ?

 $RCOCl + H_2 \xrightarrow{Pd - BaSO_4} RCHO + HCl$

Match Video Colution



specimens.

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3. Which of the following cannot reduce Fehling solution?

A. CH_3COOH

 $\mathsf{B}.\,HCOOH$

C. HCHO

D. CH_3CHO

Answer: A

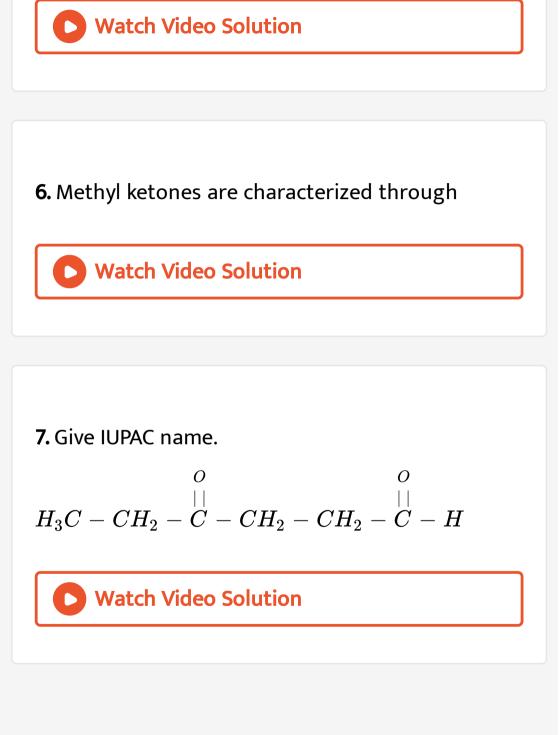


4. The solution used to preserve biological specimens.

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5. Complete the following reaction :

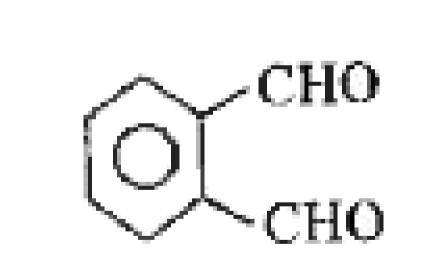
 $2HCHO + NaOH(50~\%) \rightarrow \quad$ ------?



8. Give IUPAC names of the following :

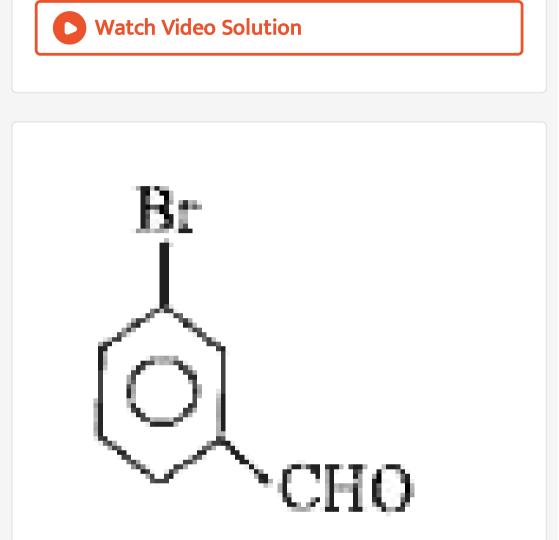
$$OHC-CH_2-\overset{CHO}{CH}-CH_2-CHO$$

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9.

IUPAC name:

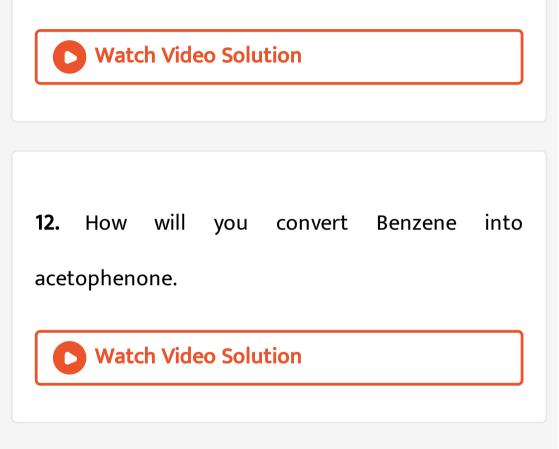


10.

Give IUPAC name:

11. Give a chemical test to distinguish between

aldehyde and ketone.



13. Ketones are comparatively less reactive than

aldehydes. It is due to





14. Which of following gives iodoform test?

A. CH_3OH

B. CH_3COOH

C. CH_3COCH_3

D. CH_3OH

Answer: B

15. Complete the reaction and balance it : NaHCO3

+ HCl →



16. Write Cannizzaro reaction.

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17. What are weak acid?



19. What is RDX ?



20. One use of urotropine and its structure?

21. Conversion of benzene to acetophenone can be

brought by

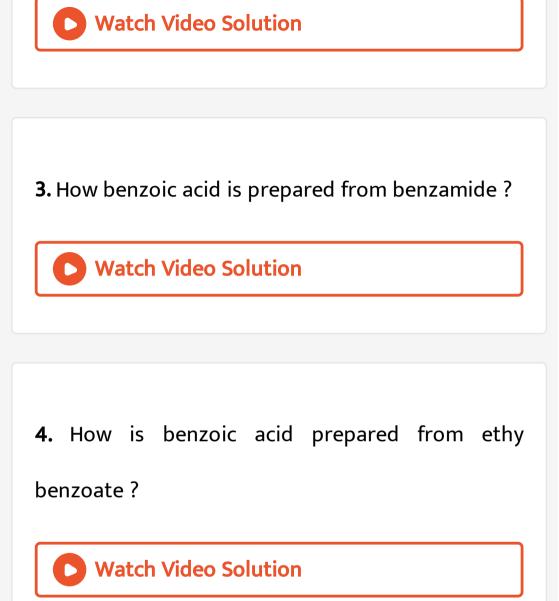


Carboxylic Acid 1 Mark Questions

1. Write the IUPAC name of salicylic acid.

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2. How benzoic acid is prepared from toluene ?



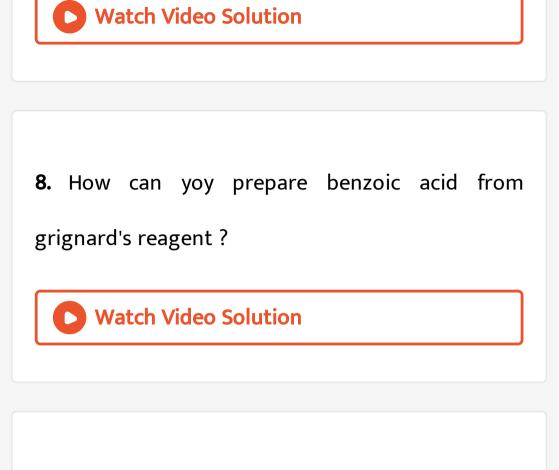
5. How will you convert ethyl bromide into propanoic acid ?
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6. How will you convert ethyl bromide into ethyl

cyanide ?

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7. How can you prepare ethanoic acid from grignard's reagent ?



9. Arrange the following in the increasing order of

acidity : CHCl2COOH, ClCl3COOH, CH2ClCOOH`



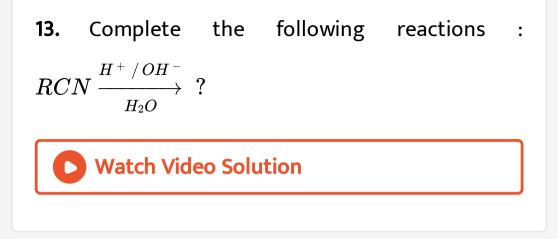
10. Write short note on decarboxylation reaction.

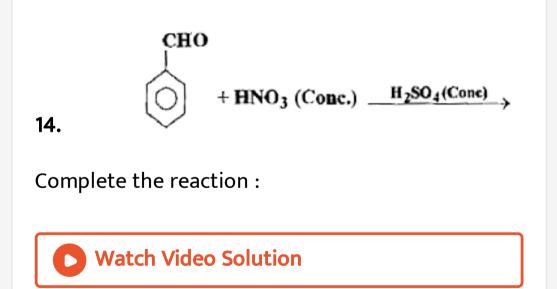
O Watch Video Solution	
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11. How is benzoic acid prepared from ethy benzoate ?

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12. How benzoic acid is prepared from benzamide?





15. Why are bond length of C = O in carboxylic acid

is slightly larger than that in aldehyde and ketone

?

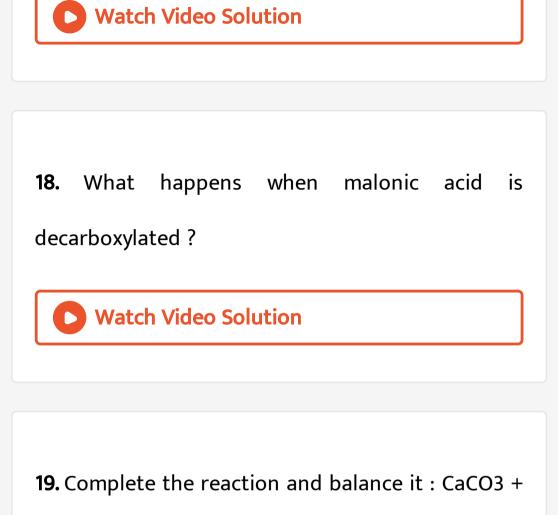


16. Complete the reaction and balance it : Ca(OH)2

+ CO2 \rightarrow



17. Write Hell Volhard Zelinsky reaction.



 $CO2 + H2O \rightarrow$

20. What are weak base.



Carboxylic Acid 3 Mark Questions

1. What are strong acid?

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2. Explain Clemmensen's reduction.

3. Aldehydes have lower boiling points than the corresponding alcohols. Explain.

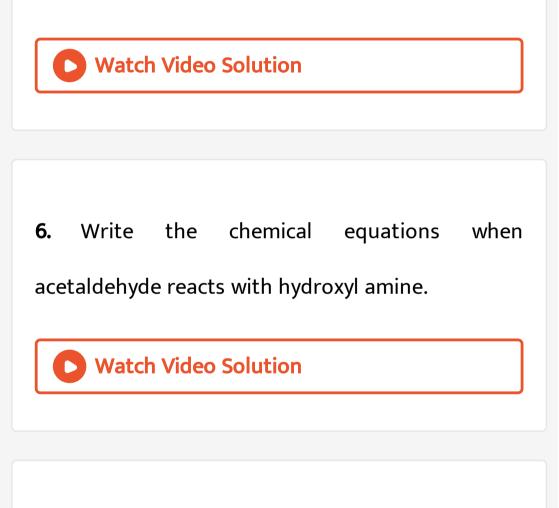


4. Arrange the following compounds in the increasing order of their boiling points :

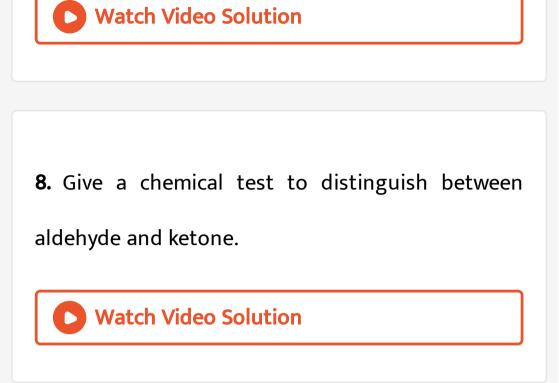
 $CH_3CHO, CH_3CH_2OH, CH_3OCH_3, CH_3CH_2CH_3$

5. Write a chemical test to distinguish between

benzaldehyde and acetaldehyde.



7. Write the reaction between acetone and semicarbazide.



9. What happens when Formaldehyde is treated

with ammonia ?

10. What is formalin solution ? Give its one use..

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11. Two uses of formaldehyde.
View Text Solution

12. What type of aldehyde and ketones undergo

Cannizzaro's reaction ?

13. What type of hybridisation is involved for carbon in a carbonyl group?Watch Video Solution

14. The symbol of the elements cobalt , aluminium , helium and sodium respectively written by the student as follows . Which symbol is the correct one.

A. a. CO

B.b.AL

C. c. He

D. d. So

Answer:

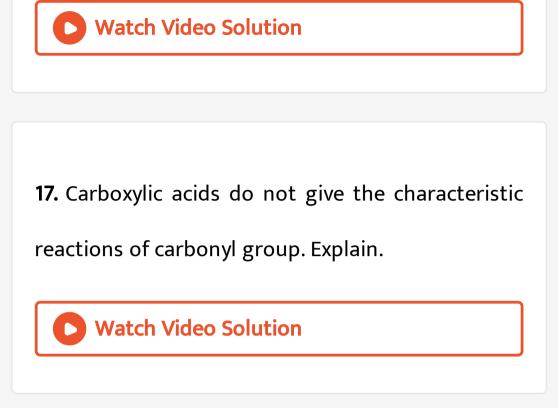


15. Carboxylic acid exists as dimers, explain why?

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16. Why are the boiling points of carboxylic acids

higher than the corresponding alcohols ?



18. Benzoic acid is stronger acid than acetic acid.

Justify.

19. Fluoroacetic acid is stronger than chloroacetic

acid. Explain why?



20. Why carboxylic acids do not give characteristic

reactions of -OH group.

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21. How will you account for the acidic nature of

carboxylic acid ?



22. Benzoic acid is stronger acid than acetic acid.

Justify.



23. How will you account for the acidic nature of

carboxylic acid ?

24. Why acetic acid is weaker than formic acid ?

|--|

25. Why chloroacetic acid is stronger acid than acetic acid ?

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26. Benzoic acid is stronger acid than acetic acid.

Justify.

27. Why trichloro acetic acid is stronger than acetic

acid ?



28. Chloroacetic acid has lower pK_{lpha} value than

acetic acid. Explain,



29. Why dichloroacetic acid is stronger than

monochloroacetic acid ?

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30. Carboxylic acid exists as dimers, explain why?

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31. Most aromatic acids are solids while acetic acid

and others of their series are liquids. Why?

32. Formic acid is stronger acid than acetic acid. Justify.



33. Benzoic acid is stronger acid than acetic acid.

Justify.

34. p-Nitrobenzoic acid is a stronger acid than

benzoic acid. Justify.



35. Aldehyde are more reactive than ketone ?

Explain why.

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Distinguish Test

1. Discuss iodoform test. How will you distinguish between propane-1-ol and Propane-2-ol with this test ?



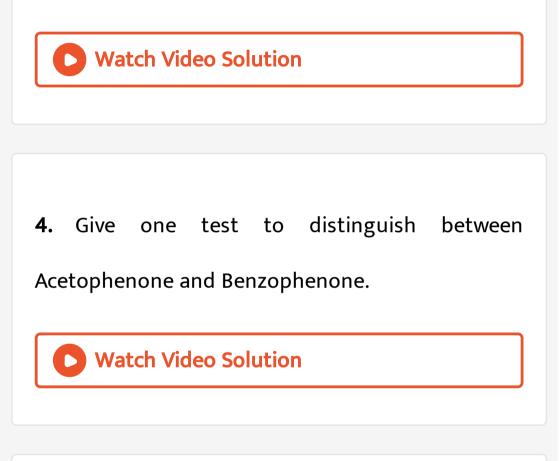
2. Give chemical test to distinguish between

acetaldehyde and acetone.



3. Write a chemical test to distinguish between

benzaldehyde and acetaldehyde.



5. Write a chemical test to distinguish between Acetic acid and Acetone.

