



CHEMISTRY

NCERT - NCERT CHEMISTRY(GUJRATI)

CARBONYL COMPOUNDS

Self Evaluation A Choose The Correct Answer

1. The chain isomer of 2-methyl propanal is

A. 2-butanone

B. butanal

C. 2-methyl propanol

D. but-3-ene-2-ol

Answer:



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2. Schiff's reagent gives pink colour with

A. acetone

B. acetaldehyde

C. ethyl alcohol

D. methyl acetate

Answer:



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3. Isopropyl alcohol vapours with air over silver catalyst at 520 K give

A. tert.butyl alcohol

B. acetaldehyde

C. acetone

D. 2-propanol

Answer:



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4. Which of the following compounds is oxidised to give ethyl methyl ketone ?

A. 2-propanol

B. 2-pentanone

C. 1-butanol

D. 2-butanol

Answer:



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5. Formaldehyde polymerises to give

- A. paraldehyde
- B. paraformaldehyde
- C. formalin
- D. formic acid

Answer:



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6. Tollen's reagent is

A. ammoniacal cuprous chloride

B. ammoniacal cuprous oxide

C. ammoniacal silver nitrate

D. ammoniacal silver chloride

Answer:



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7. When acetaldehyde is heated with Fehling solution, it gives a precipitate of

A. Cu_2O

B. CuO

C. $CuO + Cu_2O$

D. Cu

Answer:



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8. The compound that does not undergo Cannizzaro reaction is

A. formaldehyde

B. benzaldehyde

C. acetaldehyde

D. trimethyl acetaldehyde

Answer:



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9. Hydrogenation of benzoyl chloride in the presence of Pd on $BaSO_4$ gives

A. phenol

B. benzoic acid

C. benzyl alcohol

D. benzaldehyde

Answer:



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10. From which of the following, tertiary butyl alcohol is obtained by the action of methyl magnesium iodide ?

A. $HCHO$

B. CH_3CHO

C. CH_3COCH_3

D. CO_2

Answer:



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11. In the reduction of acetaldehyde using $LiAlH_4$ the hydride ion acts as

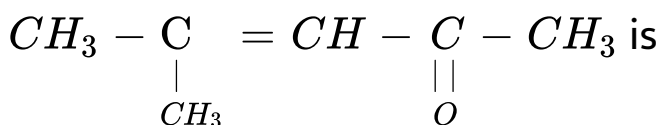
- A. electrophile
- B. nucleophile
- C. both (a) and (b)
- D. a free radical

Answer:



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12. The IUPAC name of



A. 4-methylpent-3-en-2-one

B. 2-methylpent-3-en-2-one

C. 3-methyl pent-2-en-1-one

D. None of these

Answer:

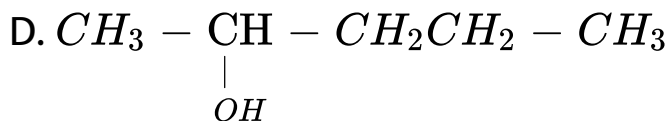
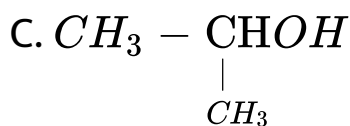


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13. Which of the following does not give iodoform test ?

A. aceto phenone

B. benzophenone



Answer:



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14. The compound which does not reduce Fehling solution is

- A. formaldehyde
- B. acetaldehyde
- C. benzaldehyde
- D. propionaldehyde

Answer:



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15. $CH_3COCH_3 \xrightarrow{\text{Conc. } H_2SO_4}$ The product is

A. mesitylene

B. mesityl oxide

C. phorone

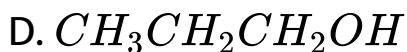
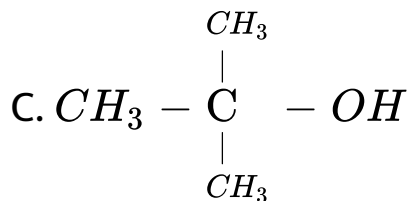
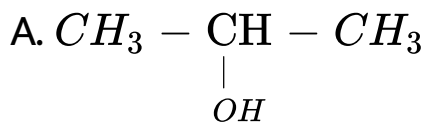
D. paraldehyde

Answer:



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16. Which compound on strong oxidation gives propionic acid ?



Answer:

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17. The compound used in the preparation of the tranquilizer, sulphonal is

A. acetone

B. acetophenone

C. isopropyl alcohol

D. glycol

Answer:



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18. Calcium acetate + calcium benzoate $\xrightarrow{\text{distillation}}$

gives

A. benzophenone

B. benzaldehyde

C. acetophenone

D. phenyl benzoate

Answer:



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19. Bakelite is a product of reaction between

A. formaldehyde and NaOH

B. phenol and methanal

C. aniline and NaOH

D. phenol and chloroform

Answer:



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Self Evaluation B Answer In One Or Two Sentences

1. Give the structural formulae of

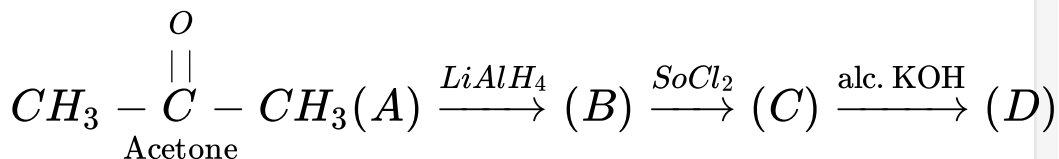
(a) mesitylene (b) phorone and (c) mesityl oxide



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Self Evaluation C Answer Not Exceeding Sixty Words

1. Identify (B), (C) and (D)



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2. How will you synthesise acetaldehyde from formaldehyde ?



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3. How will you distinguish between 2-pentanone and 3-pentanone.



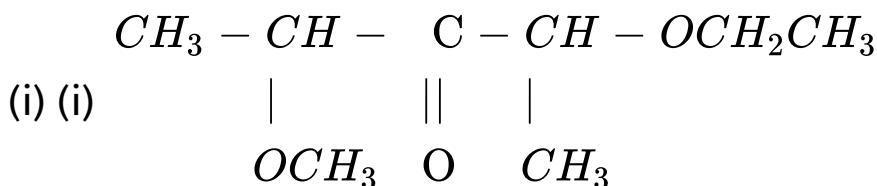
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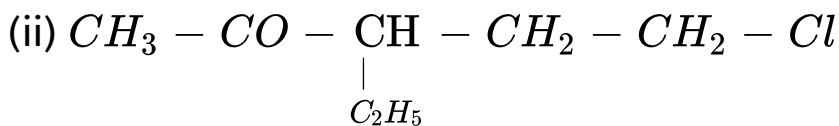
4. How will you synthesise acetone from acetaldehyde ?



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5. Give the IUPAC names of





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6. An organic compound, $\text{C}_2\text{H}_4\text{O}$ gives a red precipitate when warmed with Fehling's solution. It also undergoes aldol condensation in presence of alkali.

(i) Write IUPAC name of the compound.

(ii) What is the hybridization of carbon atoms in the compound ?

(iii) Write equation for the reaction.



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7. Write the structural formula of the main product formed when , (i) The compound obtained by hydration of ethyne is treated with dilute alkali. (ii) Methanal reacts with ammonia.



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