



CHEMISTRY

BOOKS - MODERN PUBLICATION CHEMISTRY (KANNADA ENGLISH)

UNIT TEST 7

Questions

1. The strongest acid among the following is

A. O nitrobenzoic acid

B. p nitrobenzoic acid

C. benzoic acid

D. o-chlorobenzoic acid

Answer: A



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2. On heating propanamide with SOCl_2 the product formed as :

A. propanol

B. propyl chloride

C. propanoyl chloride

D. propanal

Answer: C



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3. In which of the following Cl is not easily replaced

A. 

B. 

C. $CH_2 = CHCH_2Cl$

D. CH_3CH_2Cl

Answer: B



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4. Chloroform condenses with acetone to form a compound which is used as a/an:

- A. antiseptic
- B. analgesic
- C. antiseptic
- D. hypnotic

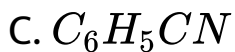
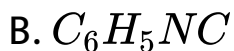
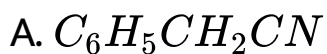
Answer: D





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5. Chloroform on warming with aniline and alcoholic KOH gives

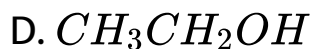
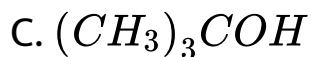
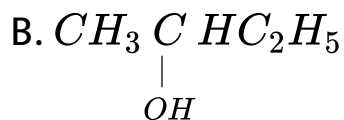
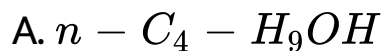


Answer: B



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6. Which of the following has the highest boiling point?

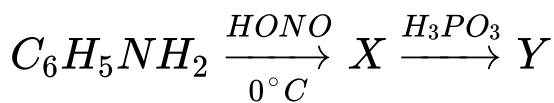


Answer: A

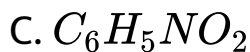
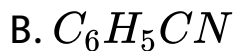
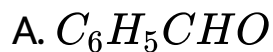


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7. In the reaction



the product y is

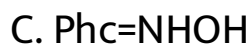


Answer: D



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8. Hydroxylamine condenses with benzaldehyde to give



Answer: A



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9. The acetaldehyde can be prepared from acetyl chloride in the presence of Pd and $BaSO_4$ this reaction is called

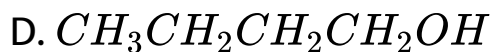
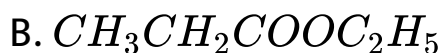
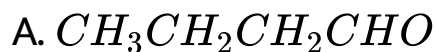
- A. rosenmund reaction
- B. wolf kishner reduction
- C. clemmensen reduction
- D. perkin reaction

Answer: A



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10. A colourless liquid P formed a crystalline product with 2,4 dinitrophenyl hydrazine but did not reduce ammoniacal silver nitrate solution the possible formula of P is



Answer: C



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11. Deaths due to liquor poisoning are due to the presence of

A. ethyl alcohol

B. KCN

C. methyl alcohol

D. carbonic acid

Answer: C



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12. What makes lemon sour

A. citric acid

B. acetic acid

C. tartaric acid

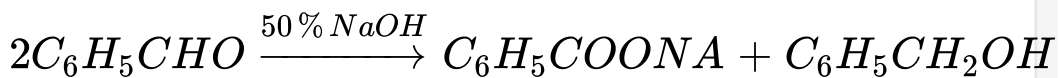
D. oxalic acid

Answer: A



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13. The reaction



is an example of

A. perline reaction

B. kolbe' reaction

C. etard reaction

D. cannizzaro reaction

Answer: B



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14. Williamson's synthesis is an example of

A. nucleophilic addition

B. nucleophilic substitution

C. electrophilic substitution

D. electrophilic addition

Answer: B



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15. Which of the following tests would help in the distinction of HCOOH and CH_3COOH

A. Tollen's test

B. reaction with sodium

C. treatment with NaOH

D. formation of their amides

Answer: A



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16. Which compound is oxidised to prepare methyl ethyl ketone?

A. 2-butanol

B. 1-butanol

C. 2-propanol

D. 1-buty alcohol

Answer: A



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17. At room temperature formaldehyde is

A. gas

B. liquid

C. solid

D. none of these

Answer: A



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18. Which of the following does not have carboxyl group

A. salicylic acid

B. picric acid

C. succinic acid

D. malonic acid

Answer: B



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19. Which of the following compounds will not give iodoform on treatment with alkali and iodine

A. acetone

B. ethanol

C. diethyl ketone

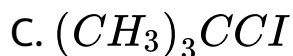
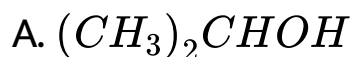
D. isopropyl alcohol

Answer: C



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20. Which of the following compounds is optically active

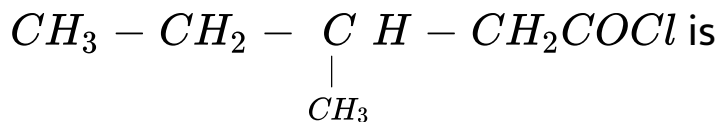


Answer: B



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21. The IUPAC name of the compound



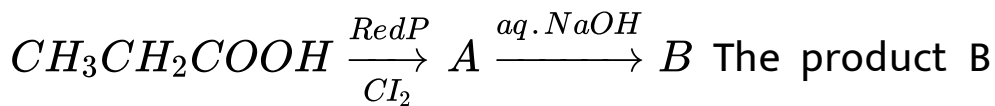
- A. 2 methyl pentonyl chloride
- B. 3- methyl pentonyl chloride
- C. 2-methyl butanoyl chloride
- D. 1-chloro-3-methyl butanone

Answer: B



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22. In the reaction



is

A. lactic acid

B. acrylic acid

C. $CH_3CH_2CONH_2$

D. tartaric acid

Answer: A



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23. Acetone on treating with conc H_2SO_4 gives

- A. benzene
- B. mesitylene
- C. phorone
- D. mesityl oxide

Answer: B



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24. Which of the following is a sedative

A. metaldehyde

B. paraformaldehyde

C. acetadehyde

D. paraldehyde

Answer: D



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25. Acetaldehyde on reaction with grignard reagent and subsequent hydrolysis gives

A. tertiary alcohol

B. primary alcohol

C. primary alcohol

D. secondary alcohol

Answer: C



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26. Ethers are isomeric with

A. aldehydes

B. acids

C. ketones

D. alcohols

Answer: D



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27. Ethylene glycol on oxidation with periodic acid gives

A. formaldehyde

B. oxalic acid

C. glyoxial

D. glycolic acid

Answer: A



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28. HBr reacts fastest with

A. 2 methylpropan 1 ol

B. 2methylpropan 2 ol

C. propan 2 ol

D. propan 1 ol

Answer: B



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29. Which of the following is most acidic

A. pheno

B. ethyl alcohol

C. picric acid

D. p ntirophenol

Answer: C



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30. When ethyl iodide is treated with dry silver oxide it forms

- A. ethyl alcohol
- B. diethyl ether
- C. silver ethoxide
- D. ethyl methyl ether

Answer: D



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31. Tert butyl ethyl ether is prepared by williamson synthesis by reacting

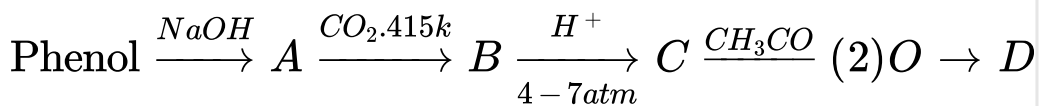
- A. sodium ethoxide and tert butoxide
- B. sodium ethoxide and tert butyl bromide
- C. sodium tert butoxide and ethyl bromide
- D. ethyl alcohol and tert butyl alcohol

Answer: C



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32. In the reaction



the product is

A. salicylaldehyde

B. aspirin

C. salicylic acid

D. benzoic acid

Answer: B



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33. Phenol reacts with excess bromine water to give

A. m bromophemophenol

B. O and p bromophenol

C. 2,4,6 tribromophenol

D. 2,4 dibromophenol

Answer: C



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34. Chlorination of toluence in the presence of light and heat followed by treatment with aqueous NaOH

gives

A. o cresol

B. p cresol

C. 2,4 dihydroxytoluence

D. benzoic acid

Answer: D



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35. On heating salicylic acid with soda lime the product obtained is

A. benzene

B. benzoic acid

C. sodium salicylate

D. phenol

Answer: D



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36. The reagent with which both aldehydes and ketones react easily is

A. fehling solution

B. tolen 's reagent

C. grignard reagent

D. schiff reagent

Answer: C



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37. Aldol condensation of acetaldehyde involves the formation of which of the following intermediates

A. acetate ion

B. a carbonium ion

C. a carbanion

D. a free radical

Answer: C



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38. A compound that gives a positive iodoform test is

A. 1-pentanol

B. 2-pentanone

C. 3-pentanone

D. pentanal

Answer: B



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

A. CuO

B. Cu_2O

C. $\text{CuO} + \text{Cu}$

D. $\text{Cu}_2\text{O} + \text{Cu}$

Answer: B





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40. When a mixture of calcium acetate and calcium formate is dry distilled, the product formed is

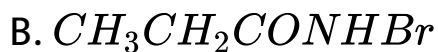
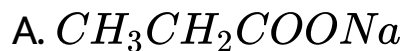
- A. actaldehyde
- B. acetone
- C. acetic acid
- D. formaldehyde

Answer: A



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41. What product is obtained when propionamide is heated with Br_2 in alkali



Answer: C



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42. Which of the following compounds will not undergo aldol condensation

A. ethanal

B. propanal

C. 2,2, trichloroethanal

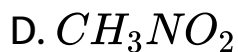
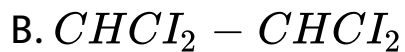
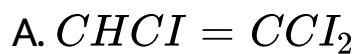
D. 2,2 dibromoethania

Answer: C



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43. Westrosol is



Answer: A



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44. Acetone will be formed by the ozonolysis of :

A. 1-butene

B. 2-butene

C. isobutene

D. 2-pentene

Answer: C



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45. Which of the following aldehydes does not reduce fehling solution readily

A. benzaldehyde

B. acetaldehyde

C. phenyl acetaldehyde

D. formaldehyde

Answer: A



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46. Chloroform is slowly oxidised by air in the presence of light to form

A. formyl chloride

B. trichloroacetic acid

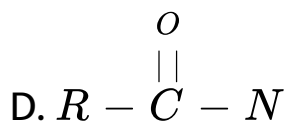
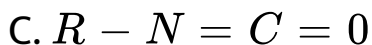
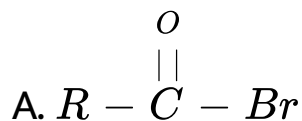
C. phosgene

D. CO and HCl

Answer: C

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47. Reaction of $RCNH_2$ with a mixture of Br_2 and KOH gives $R-NH_2$ as the main product the intermediate involved in the reaction is



Answer: C



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

A. benzyl alcohol

B. benzaldehyde

C. benzoic acid

D. phenol

Answer: B





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49. Methyl ketones are usually characterised by

A. iodoform test

B. tollen reagent

C. schiff test

D. benedict test

Answer: A



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50. Ethylene glycol on heating with conc H_2SO_4 gives

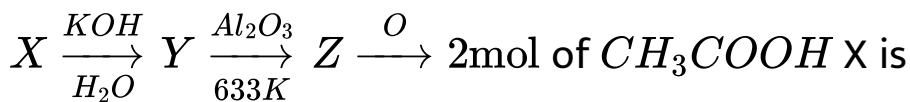
- A. formic acid
- B. dioxane
- C. acetaldehyde
- D. formaldehyde

Answer: B



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51. In the reaction sequence



- A. $CH_3CH_2CH(I)CH_3$
- B. $CH_3CH_2CH_2CH_2I$
- C. $CH_3CH(I)CH(I)CH_3$
- D. $CH_3CH(I)CH_2CH_2I$

Answer: A



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52. Which of the following compound will not give yellow ppt with iodine and alkali

A. ethanol

B. ethanal

C. 1-propanol

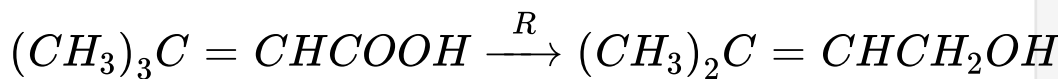
D. 2-propanol

Answer: C

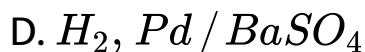
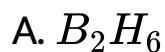


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53. In the reaction



'R' is

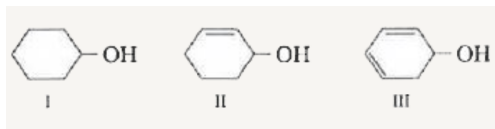


Answer: B



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54. The correct order of ease of dehydration of following is



A. $III > II > I$

B. $I > II > III$

C. $I > III > II$

D. $III > I > II$

Answer: A



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55. Which of the following compounds is not cleaved by HI even at 525 K



A.

B. $(Ph)_2O$

C. $C_6H_5OCH_3$

D. $C_6H_5OC_3H_7$

Answer: B



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56. The formation of cyanohydrin from a ketone is an example of

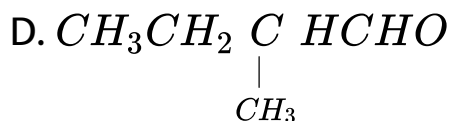
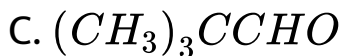
- A. electrophilic addition
- B. nucleophilic addition
- C. electrophilic substitution
- D. nucleophilic substitution

Answer: B



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57. Which of the following can give cannizzaro's reaction with a base

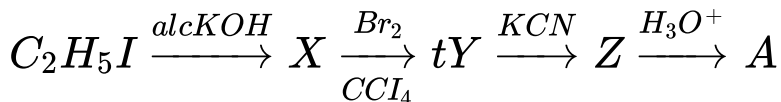


Answer: C



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58. In the following reaction sequence 'A' is



A. succinic acid

B. oxalic acid

C. malonic acid

D. maleic acid

Answer: A



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59. Lactic acid on oxidation with fenton 's reagent gives the main product

A. oxalic acid

B. pyruvic acid

C. succinic acid

D. acetic acid

Answer: A



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