



CHEMISTRY

BOOKS - USHA CHEMISTRY (ODIA ENGLISH)

POLYMERS AND CHEMISTRY IN EVERYDAY LIFE

Exercise

1. Which of the following is not a homopolymer ?

A. PAN

B. PVC

C. PTFE

D. Buna-S

Answer:



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2. Which of the following is a synthetic polymer ?

A. Protein

B. Starch

C. neoprene

D. poly-isoprene

Answer:



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3. Which of the following is an analgesic ?

A. Penicillin

B. Paracetamol

C. streptomycin

D. xylocaine

Answer:



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4. Atipyretic drugs are used to—

A. relieve pain

B. produe loss of sensation

C. control malaria

D. lower down the body temperature

Answer:



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5. Soap is sodium or potassium salt of—

- A. stearic acid
- B. oleic acid
- C. palmitic acid
- D. all of these

Answer:



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6. Natural rubber is the polymer of—

A. isoprene

B. chlpropene

C. Tetrafluoroethene

D. 2-Chloro-1, 3- butadine

Answer:



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7. Which vitamin is synthesized in skin cells only in presence of sunlight ?

A. Vitamin A

B. Vitamin B

C. Vitamin C

D. Vitamin D

Answer:



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8. Which of the following is a monosaccharide ?

A. glucose

B. Sucrose

C. Maltose

D. Starch

Answer:



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9. Which of the following gives maximum energy in metabolic process ?

A. Carbohydrates

B. proteins

C. fats

D. Vitamins

Answer:



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10. Body building foods mainly contain —

A. Carbohydrates

B. proteins

C. vitamins

D. Fats

Answer:



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11. Insulin is secreted from —

A. pancreas

B. thyroid

C. ovaries

D. none of these

Answer:



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12. Hormones are not secreted in the

A. pancreas

B. testes

C. Brain

D. thyroid

Answer:



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13. Which of the following existsn as zwitter ion ?

A. Vitamins

B. hormones

C. amino acids

D. lipids

Answer:



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14. High cholesterol in blood results heart diseases. The cholesterol is a_____

A. hormone

B. lipid

C. protein

D. carbohydrate

Answer:



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15. Which type of medicine is used for treatment of pneumonia ?

A. antipyretics

B. antibiotics

C. antiseptics

D. analgesics

Answer:



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16. Which of the following is a condensation polymer ?

A. Teflon

B. neoprene

C. Buna -s

D. bakelite

Answer:



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17. The oil from which soaps are prepared belongs to a class of compound known as _____.

A. aldehyde

B. alcohol

C. carboxylic acid

D. ester

Answer:



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18. Nylon-6, 6 is the polymer of—

A. adipic acid and methyl amine

B. sebasic acid and hexamethylene diamine

C. adipic acid and hexamethylene diamine

D. phenol and formaldehyde

Answer:



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19. Which of the following is not a condensation polymer ?

A. Terylene

B. acrylonitrile

C. bakelite

D. Nylon-6, 10

Answer:



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20. Which of the following can be used as antiseptics ?

A. boric acid

B. tincture of iodine

C. perhydrol

D. all of these

Answer:



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21. Which of the following is not a copolymer?

A. bakelite

B. Nylon-6,6

C. Terylene

D. Teflon

Answer:



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22. The polymer obtained from ethylene glycol and terphthalic acid is known as—

A. Terylene

B. nylon

C. Teflon

D. Polystyrene

Answer:



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23. Which of the following polymers has amide linkage?
linkage?

A. Nylon-6

B. teflon

C. terylene

D. bakelite

Answer:



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24. A substance which can act both as analgesic and antipyretic is —

A. quinine

B. aspirin

C. penicillin

D. insulin

Answer:



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25. $CF_2 = CF_2$ is the monomer of ___

A. orlon

B. PVC

C. Teflon

D. Terylene

Answer:



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26. What is not true about detergent ?

A. It is called as surface active agent

B. It can be used in hard water

C. it is 100% biodegradable

D. it is sodium salt of long chain alkyl
benzene sulphonic acid.

Answer:



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27. Which of the following is not an artificial
sweetner ?

A. Saccharin

B. Aspartame

C. insulin

D. sucrose

Answer:



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28. Which of the following is used as food preservative?

A. Sodium benzoate

B. Bithionol

C. Ascorbic acid

D. cyclamate

Answer:



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29. Artificial sweetner which is stable under cold conditions only is

A. Saccharine

B. Alitame

C. Sucralose

D. Aspartame

Answer:



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30. Which of the following is an anionic detergent?

A. sodium stearate

B. Sodium lauryl sulphate

C. Cetyltrimethyl ammonium bromide

D. glyceryl oleate

Answer:



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31. Which of the following is a tranquilizer ?

A. Meprobamate

B. Aspirin

C. Paracetamol

D. Codeine

Answer:



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32. Which of the following base is not present in DNA?

A. Cytosine

B. Thymine

C. Adenine

D. Quinoline

Answer:



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33. The double helix structure of DNA is stabilised by ___ bond formed between two possible base pairs.

A. peptide

B. glycosidic

C. hydrogen

D. covalent

Answer:



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34. Proteins on hydrolysis give

A. amino acids

B. nucleotides

C. amides

D. none of these

Answer:



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35. Write two uses of Bakelite ?



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36. Write the name of two antiseptics.



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37. The polymers which have high tensile strength and elasticity are called as—



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38. Give an example of elastomer.



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39. The polymers with weak intermolecular forces are called as—



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40. Caprolactum on polymerisation produces

—



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41. Give an example of detergent.



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42. Mercurochrome is used as an—.



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43. Nylon -6, 10 belongs to—class of polymer.



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44. What is copolymer ?



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45. Name two drugs used as analgesics.



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46. The chemical substances produced in our body and capable of destroying the disease causing micro-organisms are called as—



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47. Why do soaps not produce foam with hard water ?



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48. What are the end products of protein digestion?



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49. Plants store their food in the form of ___ while animals store their food in the form of ___.



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50. What is the monomer of synthetic rubber ?



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51. Give an example of natural polymer.



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52. What is PVC ?



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53. Name the protein that stores oxygen in the muscletissues.



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54. What is the fundamental unit of life ?



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55. What is terylene ?



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56. Bakelite is the polymer of ___ and _____



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57. The chemicals used on cuts and wounds are called—



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58. Inversion of canesugar produces ___ and ___.



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59. What is reducing sugar ?



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60. What should be the blood sugar level in a diet body?



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61. What is isoelectric point ?



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62. What are enzymes ?



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63. Anaemia is caused due to deficiency of iron and ____.



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64. Name the protein that carries oxygen into different parts of the body.



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65. Paracetamol is used as—.



[Watch Video Solution](#)

66. Name any two antipyretic drugs.



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67. Protein is a polymer of ___



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68. Vitamin-C is:



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69. What is PAN?



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70. Vitamin B_{12} is a complex of ___ metal



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71. Which enzyme converts starch into glucose ?



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72. The sugar present in milk is



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73. Which is called power house of the cell ?



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74. Name the polymer used for making non-sticking frying pans.



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75. In polysaccharides the monosaccharide units are joined together by ___ linkage.



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76. What are the different types of RNA found in the cell ?



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77. What type of bonding helps in stabilising the α -helix structure of proteins ?



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78. Are proteins natural or synthetic polymer ?



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79. Which polymer is used in making non-breakable plastic cups and plates ?



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80. What is the role of sulphur in vulcanisation of rubber ?





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81. What is difference between Nylon-6 and Nylon-6, 6?



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82. Name one polymer formed by step growth polymerisation. Write its monomers.



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83. Name one polymer formed by chain growth polymerisation. Write its monomer.



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84. What are elastomers ? Give an example.



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85. Which polymer is used in laminated sheet ?



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86. On the basis of molecular forces, Nylon - 6, 6 is called as ____



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87. What structural feature is necessary for a monomer to form condensation polymer ?



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88. Could a co-polymer be formed by step growth or chain growth or both ?



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89. Which type of biomolecules have similar repeating units as in Nylon-6, 6?



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90. Why natural rubber has elastic nature ?



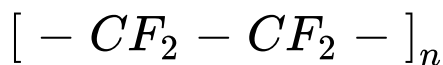
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91. What are the monomers of Buna-S, Buna-N, Dacron, Neoprene ?

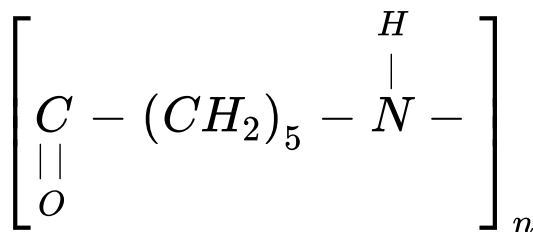


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92. Name the monomers of



and



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93. How are polymers classified on the basis of their structure ?



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94. What do you mean by broad spectrum antibiotics?



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95. What is the main constituents of dettol ?



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96. What is tincture iodine ? What its use ?



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97. What is difference between antiseptic and disinfectants ?



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98. What are food preservatives ? Give an example.



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99. Give the advantages of detergents over soaps.



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100. Why is aspartame can't be used as sweetner in hot foods ?



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101. What are the advantages of artificial sweetners?



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102. What are sedatives ? Give an example.



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103. What are antihistamines ? Give an example.



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104. Birth control pills essentially contain mixture of synthetic ___ and ___



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105. Give the principle of preparation of Nylon-6, 6.



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106. Write the principle of preparation of bakelite. Give its two uses.



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107. What are the Monomers used for preparing Buna-S ?



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108. What is neoprene ? Give its one use.



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109. What are antibiotics? Writedown the name of two antibiotics.



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110. What are the monomers of Nylon-6, 10 ?

Why is it so named ?



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111. What do you mean by copolymer ? Give an example.



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112. What is teflon ? Give its one use.



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113. Sun is the ultimate source of energy for all living system. Explain the statement.



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114. What is the monomer of Nylon-6 ? Why is it so called?





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115. Write the structure of α - amino acid molecule in different medium.



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116. What is difference between soap and detergent ?



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117. Why the detergent with straight chain hydrocarbon group are better than the detergents with branched chain hydrocarbon group ?



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118. What do you mean by drug targets ?



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119. What are the forces involved in holding the drugs to the active site of enzymes ?



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120. What is difference between antiseptic and disinfectants ?



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121. What do you mean by broad spectrum antibiotics?



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122. What do you mean by cationic and anionic detergents. Give one example of each.



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123. Which are called as soapless soaps ? What are its advantages ?



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124. How the soaps are prepared from glyceryl stearate?



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125. Define thermosetting and thermoplastic polymers with example.



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126. What structural feature is necessary for a monomer to form condensation polymer ?



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127. What type of polymer is Dacron ? How can be it prepared ?



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128. How natural rubber differ from Gutta-percha ?



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129. What is the purpose of vulcanisation of rubber?



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130. Arrange the following in increasing order of their intermolecular forces. Buna-N, Nylon-6, 10, PVC



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131. Write the names and structures of monomers of the following polymers.

Neoprene, Buna-S, acrilon, Nylon-6, 6, Dacron,



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132. Classify the polymers on the basis of molecular forces.



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133. How can you differentiate between addition and condensation polymerisation?



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134. What is biodegradable polymer ? Give an example.



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135. When phenol is treated with bromine solution in carbon tetrachloride solvent, the product formed is

- A. O-bromophenol
- B. P-bromophenol
- C. 2, 4, 6 - tribromophenol
- D. mixture of o & p-bromophenol

Answer:



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136. Cannizzaro's reaction is not given by -

A. Formaldehyde

B. Benzaldehyde

C. Acetaldehyde

D. Trimethylacetaldehyde

Answer:



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137. Which of the following is the suitable reagent to get alkyl chloride from alcohol ?

A. $SOCl_2$

B. PCl_5

C. PCl_3

D. Lucas reagent

Answer:



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138. Aldehydes on treatment with Fehling's solution give a precipitate of—

A. Cu

B. Cu_2O

C. CuO

D. $Cu(OH)_2$

Answer:



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139. Which of the following contains -COOH group in it ?

A. carbolic acid

B. picric acid

C. vinegar

D. all of these

Answer:



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140. Acetaldehyde can be converted to ethane by ____

- A. Rosenmund reaction
- B. Cannizzaro's reaction
- C. Wolff Kishner reaction
- D. Wurtz reaction.

Answer:



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141. Acetic acid on heating with P_2O_5

produces –

A. Acetone

B. acetic anhydride

C. acetaldehyde

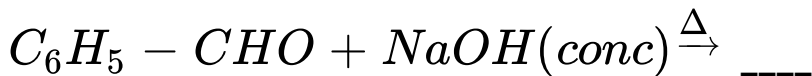
D. ethylacetate

Answer:



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142. Complete the equation



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143. An alkene on ozonolysis gives only acetone. What is the name of alkene.



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144. Phenol is acidic because ___ is more stable than ___



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145. Name the reaction, when chromyl chloride is used to convert toluene to benzaldehyde



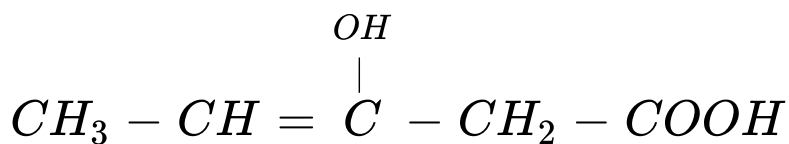
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146. Name the reagent used to distinguish between formaldehyde and formic acid.



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147. Write the IUPAC name of



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148. Grignard reagent reacts with _____ to produce benzoic acid.



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149. What is Cannizzaro's reaction? Give equation.



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150. What is Fittig and Wurtz-Fittig reaction?



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151. Why aldehydes and ketones show nucleophilic addition reaction?



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152. Do the conversion Ethanal to But-2-enal



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153. How does acetaldehyde react with 2, 4 - dinitrophenyl hydrazine ?



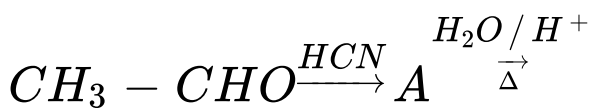
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154. Explain, why $R - \overset{\overset{O}{||}}{C} - OH$ is acidic in nature.



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155. Identify A, and B



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156. What happens when acetone react with sodium bisulphite?



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157. The treatment of ethyl bromide with aqueous KOH results ethyl alcohol but in presence of alcoholic KOH, ethylene is the major product. Explain



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158. Arrange the following in increasing order of their reactivity and also explain the reason ($HCHO$, $CH_3 - CHO$, $CH_3 - CO - CH_3$)



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159. Give a comparison between SN^1 and SN^2 type reactions .



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160. Explain why chlorobenzene is less reactive than ethyl chloride.



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161. Write short note on : Gatterman-Koch reaction



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162. Give a chemical test to distinguish between Isopropyl alcohol & n-propyl alcohol.



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163. What happens when anisole is treated with bromine solution in ethanoic acid ?



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164. Write short notes on: Aldol condensation reaction.



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165. What is Clemmensen reduction reaction?



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166. How can you distinguish 1° , 2° and 3° - alcohols by using Lucas reagent?



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167. How can acetaldehyde be prepared from acetyl chloride and acetylene?



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168. How can acetaldehyde be prepared from acetyl chloride and acetylene?



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169. How is phenol obtained from benzene ?

Explain the acidic character of phenol



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170. How can phenol be converted to salicylaldehyde



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171. How can phenol be converted to p-hydroxy azobenzene ?



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172. Describe with equation how alkyl halide can be prepared from alcohols.



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173. How does ethyl bromide react with $CH_3 - ONa$?



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174. How does ethyl bromide react with Na ?



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175. What is Finkelstein reaction ?



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176. How can acetone be prepared from ethylalcohol



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177. How can acetone be prepared form—
Grignard reagent



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178. How does acetone react with— DNPH



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179. What happens when acetone react with sodium bisulphite?



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180. How can you prepare benzoic acid from Grignard reagent? Give equations only.



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181. How can you prepare benzoic acid from Chlorobenzene ?



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182. How does benzoic acid react with Mixture of conc. HNO_3 and conc. H_2SO_4 ?



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183. Explain, why acetic acid exists in dimeric form



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184. Which of the following substance can't be directly obtained from benzene diazonium chloride ?

A. Phenol

B. Iodobenzene

C. benzoic acid

D. nitro benzene

Answer:



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185. The structural unit of protein is —.

A. ester linkage

B. peptide linkage

C. ether linkage

D. none of these

Answer:



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186. Nitrobenzene on heating with tin and conc. HCl yields—

A. Benzene

B. Aniline

C. Phenyl hydroxyl amine

D. benzene diazonium chloride

Answer:



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187. Which of the following contains cobalt ?

- A. Chlorophyll
- B. haemoglobin
- C. Vitamin B_{12}
- D. none of these

Answer:



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188. Which of the following is a synthetic polymer ?

A. protein

B. starch

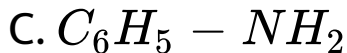
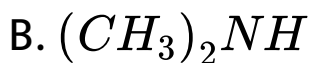
C. neoprene

D. poly-isoprene

Answer:



189. Which of the following is most basic



Answer:



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

A. $-NH_2$

B. $-CHO$

C. $-NO_2$

D. all of these

Answer:



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191. The chemicals used on cuts and wounds are called—



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192. Loss of biological activity of protein by physical and chemical changes is known as



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193. Complete the equation and name the reaction



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194. Write the chemical name of a detergent.



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195. Benzene diazonium chloride on treatment with — gives iodobenzene.



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196. Name a sweetening agent used in the preparation of sweets for diabetic patients



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197. What is the monomer of Teflon ?



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198. What is difference between soap and detergent ?



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199. Why is aniline less basic than ammonia ?



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200. Identify the electrophiles and nucleophiles.

$(NO_2^+, AlCl_3, SO_3, Cl^-, NH_3, BF_3)$



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201. What is the main constituents of dettol ?



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202. Explain the Hofmann bromamide reaction with one example.



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203. Do the conversion : Aniline \rightarrow Benzyl alcohol





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204. What happens when bromine solution in water is added to aniline ?



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205. Give a chemical test to distinguish between ethyl amine and dimethyl amine.



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206. What is the purpose of vulcanisation of rubber?



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207. What is antibiotic ? Give one example .



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208. Essential: non-essential amino acid is



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209. What are addition and condensation polymerisation? Give one example of each.



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210. Write the structural and functional difference between RNA and DNA.



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211. Write the monomers of the following :

acrilan, Dacron, Neoprene



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212. Name the sources and deficiency disease of the following vitamins - Vitamin A, C and D.



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213. What do you mean by nucleotides and nucleoside ?



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214. Write notes on Gabriel phthalimide synthesis.



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215. What are the different types of carbohydrates? Give one example of each.



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216. What is coupling reaction ? Give an example.



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217. How can benzene diazonium chloride be prepared from nitrobenzene ?



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218. Give one method of preparation of benzene diazonium chloride. Write its synthetic applications for preparation of (a) chlorobenzene (b) phenol (c) benzene (d) iodobenzene.



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219. Write a method for the preparation of benzoic acid from benzoyl chloride



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220. Write short notes on: Proteins



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221. Write short notes on: Vitamins





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222. Write short notes on: Thermoplastic and thermosetting polymers



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223. How can you get ethyl amine from acetamide ?



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224. How can you get ethyl amine from acetamide ?



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225. How does ethyl amine react with a mixture of $NaNO_2$ and HCl?



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226. Between ethyl amine and dimethyl amine which has higher boiling point ?



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227. How can you prepare aniline from benzene ?



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228. How does aniline react with -
Conc. HNO₃ + Conc. H₂SO₄



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229. How does aniline react with $-CH_3COCl$?



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230. Write the graphic formula of sulphanilic acid.



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231. Write the possible isomers of the amine with MF : C_3H_9N . Name them and also

classify them



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232. Give a method to distinguish between $1^\circ C$, $2^\circ C$ and $3^\circ C$ - amines.



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233. How does glucose react with (a) HI



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234. How does glucose react with Br_2 solution in water ?



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235. Which of the following attacks glass ?

A. HF

B. HCl

C. HBr

D. HI

Answer:



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236. By electrolysis of a solution of dilute H_2SO_4 in presence of platinum electrodes the gas evolved at anode is

A. H_2

B. O_2

C. SO_2

D. SO_3

Answer:



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237. Micelle is a form of—

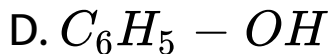
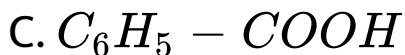
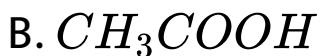
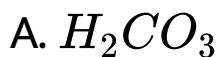
- A. associated colloid
- B. multimolecular colloid
- C. macromolecular colloid
- D. none of these

Answer:



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238. Carbolic acid is



Answer:



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239. The shape and hybridisation of XeF_4 is



Answer:



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240. Which of the following is a tranquilizer ?

A. Meprobamate

B. Aspirin

C. Paracetamol

D. Codeine

Answer:



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241. Cannizzaro's reaction is not given by -

A. acetaldehyde

B. formaldehyde

C. benzaldehyde

D. trimethyl acetaldehyde

Answer:



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242. Arrange the ions in increasing order of their flocculating power. (Al^{3+} , Ba^{2+} , Na^{+})



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243. Paracetamol is used as—.



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244. In an electrolytic cell oxidation occurs at _____ and reduction at _____.



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245. The half life of a 1st order reaction 4 min.
In what time 16 gm of the reactant will be reduced to 1 gm?



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246. What is composition of copper matte ?



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247. Indicate the primary and secondary valencies of the central metal atom in the complex $K_4[Fe(CN)_6]$



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248. Azurite is the ore of iron. (Rewrite correctly)



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249. What is temperature co-efficient ?



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250. How natural rubber differ from Gutta-percha ?



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251. What happens when ethyl benzene is heated with alkaline potassium

permanganate?



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252. What happens when phenol is treated with phthalic anhydride in presence of conc. H_2SO_4 ?



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253. What is Mendius reaction ?



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254. Give two characteristics of 1st order reaction.



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255. What happens when acetone is treated with iodine in NaOH solution?



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256. What is Fries rearrangement ?



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257. Explain, why liquid HCl and pure H_2O are non-conductor , while the solution of HCl in water is a strong electrolyte.



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258. What is the role of lime stone in the extraction of iron ?



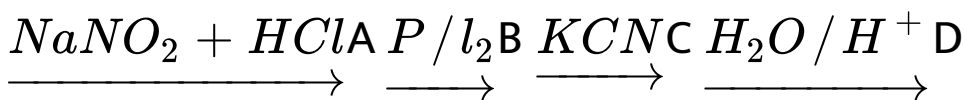
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259. How can you convert acetaldehyde to crotonaldehyde?



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260. Identify A, B, C, D $C_2H_4 - NH_2$



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261. Find the mole ratio of 'Cu' and 'Ag' deposited when same quantity of charge is passed through solutions of $CuSO_4$ and $AgNO_3$ separately (Ag = 108, Cu = 63.5)



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262. Determine the type of Cubic lattice to which the iron crystal belongs, if its density of $7.876\text{g}/\text{cm}^3$ and edge length of the cell is 286 pm. (At wt of Fe = 56)



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263. What do you mean by inner orbital and outer orbital complexes ?



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264. What are interhalogen compounds ? Why are these more reactive than halogens ?



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265. What is Gabriel phthalimide reaction ? Why is aniline not prepared by this method ?



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266. What is difference between physisorption and chemisorption ?



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267. Write short note on Law of independent migration of ions.



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268. Write short note on Iodoform reaction.



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269. Derive an expression for rate constant of 1st order reaction. Write the unit of K.



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270. Show that for a 1 st order reaction

$$t_{99.9\%} = 3 \times t_{90\%}$$



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271. State and explain Faraday's 1st law of electrolysis.



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272. What weight of silver will be deposited by the same quantity of electricity which liberates 56 ml of O_2 at NTP from acidulated water ?



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273. Discuss Reimer-Tiemann reaction.



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274. Write short notes on: Antibiotics



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275. Write short notes on: Carbyl amine reaction



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276. What is amine ? Name different types of amines.



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277. How are primary amines prepared from –
(i) Acid amides containing same number of carbon atom ?



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278. Give a method to distinguish between $1^\circ C$, $2^\circ C$ and $3^\circ C$ - amines.



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279. Describe the Siemen's method preparation of ozone.



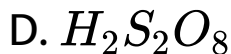
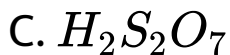
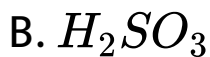
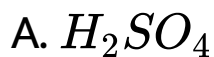
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280. How does ozone react with (i) Moist iodine (ii) Lead sulphide?



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281. Oil of vitriol is



Answer:



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282. Co-ordination pattern in CaF_2 crystal is

A. 8 : 8

B. 4 : 4

C. 8 : 4

D. 4 : 8

Answer:



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283. Monocarboxylic acids are the functional isomer of -

A. alcohols

B. ester

C. acid chloride

D. aldehydes

Answer:



284. When one coulomb of electricity is passed through an electrolytic solution, the mass deposited is equal to

- A. the atomic weight
- B. the chemical equivalent
- C. the molecular weight
- D. the electrochemical equivalent

Answer:





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285. Which of the following is not a copolymer ?

A. Nylon-6,6

B. Buna-s

C. Teflon

D. Bakelite

Answer:



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286. The double helix structure of DNA is stabilised by ___ bond formed between two possible base pairs.

A. Peptide

B. Hydrogen

C. Glycosidic

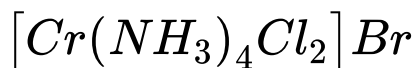
D. Covalent

Answer:



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287. Write the IUPAC name of



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288. Which gas is produced when white phosphorus is boiled with NaOH solution ?

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289. The reaction of phenol with chloroform in presence of aqueous NaOH solution at 350 K gives ortho-hydroxy benzaldehyde. The reaction is called as_____



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290. Acetamide on heating with Br_2 and aqueous alkali results ___ as the major product.



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291. Give a chemical test to distinguish between Isopropyl alcohol & n-propyl alcohol.



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292. When rate of a 1st order reaction is plotted Vs. concentration of the reactant a straight line is obtained, whose slope is equal to _____



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293. What is the chemical name of wood spirit ?



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294. How can you get benzoic acid from benzene?



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295. Name the reagent used to distinguish between formaldehyde and acetaldehyde.



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296. Explain why chlorobenzene is less reactive than ethyl chloride.



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297. What is the value of Van't Hoff factor (i) for KCl if it is 80% dissociated in aqueous solution?



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298. Ethylamine reacts with nitrous acid to produce _____



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299. Why does xenon form compounds only with fluorine and oxygen ?



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300. Give one test to distinguish between acetaldehyde and acetone.



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301. Give comparison between Schottky defect and Frenkel defect.



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302. Why is oxygen a gas sulphur a solid at while room temperature ?



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303. What do you mean by autoreduction in metallurgy?



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304. What are t_{2g} and e_g orbitals ?



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305. Why is aniline a weaker base than ethyl amine?



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306. What type of sol is formed when $AgNO_3$ solution is added to KI solution and vice-versa?



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307. Do the conversion : Nitrobenzene \rightarrow benzoic acid.



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308. Write four characteristic properties of noble gases.



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309. What is Finkelstein reaction ?



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310. Show that for a 1 st order reaction

$$t_{99.9\%} = 3 \times t_{90\%}$$



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311. What do you mean by diazotisation and coupling reaction ?



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312. Write short note on Iodoform reaction.



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313. Discuss the trends in properties of hydrides of Gr-16 family (any three) ?



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314. How can you prepare acetic acid from Methyl cyanide



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315. How is acetic acid prepared from methyl magnesium bromide ?



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316. How does acetic acid react with Ethyl alcohol



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317. Acetic acid on heating with P_2O_5 produces –



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318. How can acetaldehyde be prepared from acetyl chloride and acetylene?



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319. How can acetaldehyde be prepared from acetyl chloride and acetylene?



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320. What happens when acetone reacts with sodium bisulphite?



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321. Give a comparative account of chemical properties of Gr 17 elements.



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322. Give the principle of manufacture of H_2SO_4 by contact process.



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323. What are the different types of cubic crystal systems.



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324. What do you mean by depression in freezing point? Show that depression in freezing point is a colligative property.



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325. 1g of a non-electrolyte when dissolved in 50g benzene, the freezing point of solvent is lowered by 0.40K. Find molecular mass of solute. (K_f for benzene is $5.12 \text{ K kg mol}^{-1}$)



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326. The rate of a chemical reaction depends upon

A. concentration of reactant

B. temperature

C. catalyst

D. all of these

Answer:



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327. The total number of atoms per unit cell of a face centred cubic crystal is

A. 2

B. 4

C. 6

D. 8

Answer:



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328. Which of the following is a bridging ligand

A. OH^-

B. NH_3

C. H_2O

D. $edta^{4-}$

Answer:



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329. The order of reactivity of different alkyl halides towards SN^2 type reaction is

A. $3^\circ > 2^\circ > 1^\circ$

B. $1^\circ > 2^\circ > 3^\circ$

C. $2^\circ > 3^\circ > 1^\circ$

D. $1^\circ > 3^\circ > 2^\circ$

Answer:



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330. A compound gives +ve iodoform test and +ve Fehling's test. The compound is

A. ethyl alcohol

B. formaldehyde

C. acetaldehyde

D. acetone

Answer:



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331. The false statement about sulphuric acid is

A. it acts as an oxidant

B. it acts as a dehydrating agents

C. it forms two series of salts.

D. it absorbs SO_2 to form oleum.

Answer:



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332. Natural rubber is the polymer of—

A. isoprene

B. chloroprene

C. 2-chloro-1,3-butadiene

D. tetrafluoro ethene

Answer:



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333. Gabriel phthalimide process is used for synthesis of which type of amines.



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334. Milk is an example of—,



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335. What do you mean by tailing of mercury ?



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336. $\Delta T_b = K_b \times \text{-----}$



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337. How many atoms are there in one molecule of sulphur ?



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338. Write the IUPAC name of $[Cu(NH_3)_4]SO_4$



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339. What is the monomer of synthetic rubber ?



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340. Do the conversation: Acetic acid to formic acid



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341. Give a comparison between electrolytic cell and electrochemical cell ?



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342. Why does only xenon form stable compounds among the noble gases?



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343. What is carbyl amine reaction ?



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344. Write two important hormones and their functions.





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345. Presence of $-NH_2$ group in benzene ring activates the ring for further substitution reaction, explain why ?



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346. Which among the halogens (excluding astatine) (i) has highest electron affinity ? (ii) has highest electronegativity ? (iii) is a liquid

at room temp. and pressure ? (iv) has lowest ionisation energy ?



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347. The radius of Na^+ is 95 pm and Cl^- ion 181 pm. Find co-ordination number of Na^+ ion.



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348. Find the magnetic moment of Cr^{3+} ion.



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349. What happens when SO_2 gas is passed through acidified $KMnO_4$ solution ?



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350. Why is oxygen a gas sulphur a solid at while room temperature ?



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351. How can you distinguish 1° , 2° and 3° - alcohols by using Lucas reagent?



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352. Elucidate the differences between soaps and detergents.



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353. Define Kohlrausch's law: Write its one application.



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354. For a chemical reaction $A \rightarrow B$, it is found that the rate of reaction doubles when the conc, of 'A' is increased four times. The order of reaction is



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355. Write the cell reaction and cell potential of the cell

$Zn / Zn^{2+} (0.01M) || Ag^+ (0.1M) / Ag$. Given

$$E^0 (Zn^{2+} / Zn) = - 0.76V$$

$$E^0 (Ag^+ / Ag) = + 0.80V.$$



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356. Explain why normality and molarity vary with temperature while molality is: temperature independent.



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357. What do you mean by diazotisation and coupling reaction ?



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358. Discuss the shape and magnetic property of $[Ni(CN)_4]^{2-}$ and $[NiCl_4]^{2-}$.



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359. Write the possible isomers of the amine with MF : C_3H_9N . Name them and also classify them



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360. Write the possible isomers of the amine with MF : C_3H_9N . Name them and also classify them



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361. Why is dimethyl amine more basic than methyl amine ?



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362. Write short notes on : Reimer-Tiemann's reaction



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363. Write short notes on: Cannizzaro's reaction.



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364. What is Fittig and Wurtz-Fittig reaction?



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365. Discuss one method of preparation of ammonia.



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366. How does nitric acid react with zinc ?



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367. Explain the tendency of NH_3 to form complex.



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368. Define specific conductance and equivalent conductance. Establish a relation between them.



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369. The equivalent conductance of a decinormal $BaCl_2$ solution is $121 \text{ ohm}^{-1} \text{ cm}^2 \text{ em eq}^{-1}$ at a particular temperature. Find its specific conductance and molar conductance.



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370. Give a relationship between radius of atom (r), edge (a) of unit cell for fcc and bcc crystal.



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371. Ionic solids which have anionic vacancies due to metal excess defect, develop colour. Explain with the help of a suitable example.



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