Organic Chemistry: Basic to Advanced

1. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- Correct Answer: A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

2. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

3. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

4. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

5. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

6. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A

■ Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

7. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

8. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

9. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

10. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

11. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

12. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A

■ Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

13. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4

■ Correct Answer: A

■ Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

14. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C

■ Explanation: The IUPAC name of CH3–CH2–CH2–OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

15. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

16. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters

■ Correct Answer: A

■ Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

17. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic

■ Correct Answer: A

■ Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

18. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A

■ Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

19. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3–CH2–CH2–OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

20. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

21. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

22. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

23. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6
- Correct Answer: B
- Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

24. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

25. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None
- Correct Answer: A
- Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

26. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

27. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI

■ Correct Answer: B

■ Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

28. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic

■ Correct Answer: A

■ Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

29. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI

■ Correct Answer: B

■ Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

30. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction

■ Correct Answer: A

■ Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

31. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI

■ Correct Answer: B

■ Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

32. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

33. Diazotization of primary aromatic amine forms:

- A) Diazonium salt B) Aniline C) Phenol D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

34. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- **Correct Answer:** A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

35. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

36. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

37. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

38. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

39. Proteins are polymers of:

- A) Sugars
- B) Amino acids

- C) Nucleotides
- D) Alcohols
- **Correct Answer:** B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

40. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6
- Correct Answer: B
- Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

41. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane

■ Correct Answer: A

■ Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

42. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters

■ Correct Answer: A

■ Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

43. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

44. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

45. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid

■ Correct Answer: A

■ Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

46. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4

■ Correct Answer: A

■ Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

47. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

48. Ethanol reacts with HBr to form:

- A) C2H5Br
- B) C2H4
- C) CH3Br
- D) CH3CH2OH
- **Correct Answer:** A
- Explanation: Ethanol reacts with HBr to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

49. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

50. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

51. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic
- **Correct Answer:** A
- Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

52. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- **Correct Answer:** A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

53. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- **Correct Answer:** B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules

54. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

55. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

56. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

57. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

58. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester
- **Correct Answer:** A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

59. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- **Correct Answer:** B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

60. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

61. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

62. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

63. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane
- **Correct Answer:** A
- Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

64. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester
- **Correct Answer:** A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

65. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

66. Aniline reacts with HCl to form:

- A) C6H5NH3CI
- B) C6H5CI
- C) C6H5NH2CI
- D) C6H5OH
- Correct Answer: A
- Explanation: Aniline reacts with HCl to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

67. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6

■ Correct Answer: A

■ Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

68. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C

■ Correct Answer: D

■ Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

69. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester

■ Correct Answer: A

■ Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

70. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2

■ Correct Answer: A

■ Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

71. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4

■ Correct Answer: A

■ Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

72. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None

■ Correct Answer: A

■ Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

73. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- **Correct Answer:** A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

74. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane
- **Correct Answer:** A
- Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

75. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- **Correct Answer:** D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

76. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

77. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

78. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3–CH2–CH2–OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

79. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6
- **Correct Answer:** B
- Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

80. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

81. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3-CH2-CH2-OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

82. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

83. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- **Correct Answer:** D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

84. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- Correct Answer: A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

85. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- **Correct Answer:** A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

86. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

87. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

88. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

89. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C

■ Explanation: The IUPAC name of CH3-CH2-CH2-OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

90. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

91. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters

■ Correct Answer: A

■ Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

92. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6

■ Correct Answer: A

■ Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

93. Aniline reacts with HCl to form:

- A) C6H5NH3CI
- B) C6H5CI
- C) C6H5NH2CI
- D) C6H5OH
- **Correct Answer:** A
- Explanation: Aniline reacts with HCl to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

94. Formaldehyde is represented as:

- A) CH3CHO
- B) HCHO
- C) CH3COCH3
- D) CH3COOH
- Correct Answer: B
- Explanation: Formaldehyde is represented as: Correct option B follows organic reaction mechanisms or nomenclature rules.

95. Formaldehyde is represented as:

- A) CH3CHO
- B) HCHO
- C) CH3COCH3
- D) CH3COOH
- Correct Answer: B
- Explanation: Formaldehyde is represented as: Correct option B follows organic reaction mechanisms or nomenclature rules.

96. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- **Correct Answer:** A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

97. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

98. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.
- **99.** When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

100. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- Correct Answer: A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

101. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2

■ Correct Answer: A

■ Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

102. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6

■ Correct Answer: B

■ Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

103. Ethanol reacts with HBr to form:

- A) C2H5Br
- B) C2H4
- C) CH3Br
- D) CH3CH2OH
- Correct Answer: A
- Explanation: Ethanol reacts with HBr to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

104. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6

■ Correct Answer: A

■ Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

105. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane

■ Correct Answer: A

■ Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

106. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

107. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

108. Formaldehyde is represented as:

- A) CH3CHO
- B) HCHO
- C) CH3COCH3
- D) CH3COOH
- Correct Answer: B
- Explanation: Formaldehyde is represented as: Correct option B follows organic reaction mechanisms or nomenclature rules.

109. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

110. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

111. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

112. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

113. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

114. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

115. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- **Correct Answer:** D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

116. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

117. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

118. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

119. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- **Correct Answer:** B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

120. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

121. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- **Correct Answer:** A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

122. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

123. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

124. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- Correct Answer: A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

125. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- Correct Answer: A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

126. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic
- Correct Answer: A
- Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

127. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

128. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI

■ Correct Answer: B

■ Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

129. Ethanol reacts with HBr to form:

- A) C2H5Br
- B) C2H4
- C) CH3Br
- D) CH3CH2OH
- **Correct Answer:** A
- Explanation: Ethanol reacts with HBr to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

130. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI

■ Correct Answer: B

■ Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

131. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4

■ Correct Answer: A

■ Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

132. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None

■ Correct Answer: A

■ Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

133. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

134. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- **Correct Answer:** A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

135. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

136. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- Correct Answer: A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

137. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

138. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

139. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion

- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

140. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

141. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

142. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

143. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- Correct Answer: A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

144. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- Correct Answer: A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

145. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature

146. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

147. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

148. Aniline reacts with HCl to form:

- A) C6H5NH3CI
- B) C6H5CI
- C) C6H5NH2CI
- D) C6H5OH

■ Correct Answer: A

■ Explanation: Aniline reacts with HCl to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

149. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

150. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction

■ Correct Answer: B

■ Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

151. Ethanol reacts with HBr to form:

- A) C2H5Br
- B) C2H4
- C) CH3Br
- D) CH3CH2OH

■ Correct Answer: A

■ Explanation: Ethanol reacts with HBr to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

152. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane

■ Correct Answer: A

■ Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

153. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

154. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones
- Correct Answer: B
- Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

155. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

156. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

157. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

158. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

159. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic
- **Correct Answer:** A
- Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules

160. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

161. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

162. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

163. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- Correct Answer: A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

164. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI
- Correct Answer: B
- Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

165. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

166. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- Correct Answer: A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

167. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6

■ Correct Answer: B

■ Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

168. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

169. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester

■ Correct Answer: A

■ Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

170. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

171. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6

■ Correct Answer: A

■ Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules

172. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- **Correct Answer:** D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

173. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

174. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6
- Correct Answer: B
- Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

175. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- **Correct Answer:** A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

176. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- Correct Answer: A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

177. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

178. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

179. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone

- C) Acid
- D) Ester
- **Correct Answer:** A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

180. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- **Correct Answer:** D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

181. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature

182. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

183. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

184. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- **Correct Answer:** D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

185. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3–CH2–CH2–OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

186. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

187. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

188. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None

■ Correct Answer: A

■ Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

189. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- Correct Answer: A

■ Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

190. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6

■ Correct Answer: B

■ Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

191. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

192. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid

■ Correct Answer: A

■ Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.

193. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones

- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

194. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

195. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

196. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- Correct Answer: A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

197. The IUPAC name of HCOOH is:

- A) Formic acid
- B) Acetic acid
- C) Propanoic acid
- D) Methanoic acid
- Correct Answer: D
- Explanation: The IUPAC name of HCOOH is: Correct option D follows organic reaction mechanisms or nomenclature rules.

198. Reagent used for dehydrohalogenation is:

- A) KOH (aq)
- B) KOH (alc)
- C) NaOH
- D) HCI
- Correct Answer: B
- Explanation: Reagent used for dehydrohalogenation is: Correct option B follows organic reaction mechanisms or nomenclature rules.

199. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2

- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

200. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- Correct Answer: A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

201. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

202. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

203. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

204. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- **Correct Answer:** A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

205. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- Correct Answer: A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

206. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

207. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

208. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

209. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- Correct Answer: A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

210. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic
- **Correct Answer:** A
- Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

211. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

212. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- Correct Answer: A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

213. Dehydration of ethanol gives:

- A) Ethene
- B) Ethane
- C) Ethyne
- D) Methane

■ Correct Answer: A

■ Explanation: Dehydration of ethanol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

214. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols

■ Correct Answer: B

■ Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

215. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None

■ Correct Answer: A

■ Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

216. Detergents are sodium salts of:

- A) Long-chain alcohols
- B) Long-chain sulfonic acids
- C) Carboxylic acids
- D) Ketones

■ Correct Answer: B

■ Explanation: Detergents are sodium salts of: Correct option B follows organic reaction mechanisms or nomenclature rules.

217. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether

■ Correct Answer: A

■ Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

218. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None

■ Correct Answer: C

■ Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

219. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- **Correct Answer:** D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

220. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

221. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4

■ Correct Answer: A

■ Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

222. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

223. Basicity of amines depends on:

- A) Availability of lone pair
- B) Size
- C) Aromatic ring
- D) Hybridization
- **Correct Answer:** A
- Explanation: Basicity of amines depends on: Correct option A follows organic reaction mechanisms or nomenclature rules.

224. Aspirin is used as:

- A) Antipyretic
- B) Antibiotic
- C) Antiseptic
- D) Analgesic
- **Correct Answer:** A
- Explanation: Aspirin is used as: Correct option A follows organic reaction mechanisms or nomenclature rules.

225. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- Correct Answer: B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature rules.

226. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

227. Benzene undergoes:

- A) Addition
- B) Substitution
- C) Oxidation
- D) Reduction
- **Correct Answer:** B
- Explanation: Benzene undergoes: Correct option B follows organic reaction mechanisms or nomenclature

228. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

229. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester
- **Correct Answer:** A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

230. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

231. Tollen's reagent is used to test:

- A) Aldehydes
- B) Ketones
- C) Alcohols
- D) Esters
- **Correct Answer:** A
- Explanation: Tollen's reagent is used to test: Correct option A follows organic reaction mechanisms or nomenclature rules.

232. Proteins are polymers of:

- A) Sugars
- B) Amino acids
- C) Nucleotides
- D) Alcohols
- Correct Answer: B
- Explanation: Proteins are polymers of: Correct option B follows organic reaction mechanisms or nomenclature rules.

233. Diazotization of primary aromatic amine forms:

- A) Diazonium salt
- B) Aniline
- C) Phenol
- D) Nitrobenzene
- **Correct Answer:** A
- Explanation: Diazotization of primary aromatic amine forms: Correct option A follows organic reaction mechanisms or nomenclature rules.

234. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3-CH2-CH2-OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

235. The hybridization of carbon in ethyne (C2H2) is:

- A) sp3
- B) sp2
- C) sp
- D) None
- **Correct Answer:** C
- Explanation: The hybridization of carbon in ethyne (C2H2) is: Correct option C follows organic reaction mechanisms or nomenclature rules.

236. When CH4 is chlorinated in presence of sunlight, main product is:

- A) CH3CI
- B) CH2Cl2
- C) CHCI3
- D) CCI4
- **Correct Answer:** A
- Explanation: When CH4 is chlorinated in presence of sunlight, main product is: Correct option A follows organic reaction mechanisms or nomenclature rules.

237. The compound showing resonance is:

- A) CH4
- B) C6H6
- C) CH3OH
- D) C2H6
- **Correct Answer:** B
- Explanation: The compound showing resonance is: Correct option B follows organic reaction mechanisms or nomenclature rules.

238. Soap is prepared by:

- A) Saponification
- B) Hydrolysis
- C) Oxidation
- D) Reduction
- **Correct Answer:** A
- Explanation: Soap is prepared by: Correct option A follows organic reaction mechanisms or nomenclature rules.

239. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

240. Aldol condensation occurs between:

- A) Two aldehydes
- B) Two ketones
- C) Aldehyde and ketone
- D) Both A and C
- Correct Answer: D
- Explanation: Aldol condensation occurs between: Correct option D follows organic reaction mechanisms or nomenclature rules.

241. Esterification is reaction between:

- A) Acid + Alcohol
- B) Acid + Base
- C) Alcohol + Aldehyde
- D) Alcohol + Ether
- **Correct Answer:** A
- Explanation: Esterification is reaction between: Correct option A follows organic reaction mechanisms or nomenclature rules.

242. Acetic acid reacts with NaHCO3 to form:

- A) CO2
- B) CH4
- C) C2H6
- D) H2
- **Correct Answer:** A
- Explanation: Acetic acid reacts with NaHCO3 to form: Correct option A follows organic reaction mechanisms or nomenclature rules.

243. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester
- **Correct Answer:** A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

244. Oxidation of primary alcohol gives:

- A) Aldehyde
- B) Ketone
- C) Acid
- D) Ester
- Correct Answer: A
- Explanation: Oxidation of primary alcohol gives: Correct option A follows organic reaction mechanisms or nomenclature rules.

245. The IUPAC name of CH3-CH2-CH2-OH is:

- A) Methanol
- B) Ethanol
- C) Propanol
- D) Butanol
- **Correct Answer:** C
- Explanation: The IUPAC name of CH3–CH2–CH2–OH is: Correct option C follows organic reaction mechanisms or nomenclature rules.

246. Inductive effect is transmitted through:

- A) σ bonds
- B) π bonds
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: Inductive effect is transmitted through: Correct option A follows organic reaction mechanisms or nomenclature rules.

247. Ethene reacts with bromine to give:

- A) C2H4Br2
- B) C2H6
- C) C2H2
- D) C2Br6
- **Correct Answer:** A
- Explanation: Ethene reacts with bromine to give: Correct option A follows organic reaction mechanisms or nomenclature rules.

248. SN1 mechanism proceeds through:

- A) Carbocation
- B) Carbanion
- C) Free radical
- D) None
- **Correct Answer:** A
- Explanation: SN1 mechanism proceeds through: Correct option A follows organic reaction mechanisms or nomenclature rules.

249. The nucleic acid containing thymine is:

- A) DNA
- B) RNA
- C) Both
- D) None
- **Correct Answer:** A
- Explanation: The nucleic acid containing thymine is: Correct option A follows organic reaction mechanisms or nomenclature rules.

250. Glucose is a:

- A) Monosaccharide
- B) Disaccharide
- C) Polysaccharide
- D) Lipid
- **Correct Answer:** A
- Explanation: Glucose is a: Correct option A follows organic reaction mechanisms or nomenclature rules.