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Named Reaction

1. Wurtz reaction is used for the synthesis of what type of compound?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Ketone

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2. What is the purpose of the Carbylamine reaction?

- a) Detection of primary amines
- b) Detection of secondary amines
- c) Detection of tertiary amines
- d) Detection of aldehydes

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3. Fischer esterification is the reaction between a carboxylic acid and what compound?

- a) Alcohol
- b) Amine
- c) Alcohol and sulfuric acid
- d) Ester

4. Stobbe condensation is a reaction between an ester and what other compound?

- a) Alcohol
- b) Diketone
- c) Amine
- d) Ketone

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5. Hell-Volhard-Zelinsky (HVZ) reaction involves the halogenation of what compound?

- a) Alcohol
- b) Amine
- c) Carboxylic acid
- d) Ketone

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6. Stephen reaction is a method for the conversion of what functional group into a nitrile?

- a) Amide
- b) Halide
- c) Carboxylic acid

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7. What is the purpose of the Hoffmann bromamide degradation reaction?

- a) Synthesis of alcohols
- b) Conversion of amides to amines
- c) Synthesis of aldehydes
- d) Conversion of amines to amides

8. What type of reaction is the Finkelstein reaction?

- a) Esterification
- b) Halogen exchange
- c) Substitution
- d) Elimination

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9. Etard reaction involves the oxidation of what compound?

- a) Alcohol
- b) Alkane
- c) Ketone
- d) Amine

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10. Fehling's test is used to detect the presence of which functional group?

- a) Alcohol
- b) Amine
- c) Aldehyde
- d) Ketone

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11. Hoffmann bromamide degradation reaction converts an amide into what compound?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Ketone

12. What is the purpose of the Tollens' test?

- a) Detection of alcohols
- b) Detection of aldehydes
- c) Detection of ketones
- d) Detection of amines

13. Which of the following is not a component of the Sandmeyer reaction?

- a) Diazonium salt
- b) Copper salt
- c) Grignard reagent
- d) Nitrous acid

14. What is the product of the Rosenmund reduction?

- a) Alcohol
- b) Amine
- c) Aldehyde
- d) Ketone

15. What is the purpose of the Carbylamine reaction?

- a) Detection of primary amines
- b) Detection of secondary amines
- c) Detection of tertiary amines
- d) Detection of aldehydes

16. What is the product of the Sonogashira coupling reaction?

- a) Alcohol
- b) Amine
- c) Alkyne
- d) Alkene

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17. In the Baeyer-Villiger oxidation, what type of compound is converted into a ketone or ester?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Alkylbenzene

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18. What is the purpose of the Fehling's test?

- a) Detection of alcohols
- b) Detection of aldehydes
- c) Detection of ketones
- d) Detection of amines

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19. Carbylamine reaction is a test for the presence of what functional group?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Primary amine

20. Perkin reaction is a condensation reaction between an aromatic aldehyde and what compound?

- a) Alcohol
- b) Amine
- c) Acid anhydride
- d) Ketone

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21. What is the product of the Wurtz-Fittig reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Alkene

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22. Which of the following is not a component of the Suzuki-Miyaura coupling reaction?

- a) Palladium catalyst
- b) Boronic acid
- c) Grignard reagent
- d) Halide

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23. What is the product of the Rosenmund reduction?

- a) Alcohol
- b) Amine
- c) Aldehyde
- d) Ketone

24. What is the mechanism of the Corey-House synthesis?

- a) Electrophilic aromatic substitution
- b) Nucleophilic substitution
- c) Coupling of organometallic reagents
- d) Electrophilic addition

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25. Balz-Schiemann reaction involves the conversion of an aromatic amine into what compound?

- a) Alcohol
- b) Halide
- c) Ketone
- d) Ester

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26. Which reaction is commonly used for carbon-carbon bond formation?

- a) Friedel-Crafts alkylation
- b) Coupling reaction
- c) Wittig reaction
- d) Aldol condensation

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27. Swarts reaction converts an alkyl halide into what compound?

- a) Alcohol
- b) Ketone
- c) Fluorocarbon
- d) Amine

28. In the Baeyer-Villiger oxidation, what type of compound is converted into a ketone or ester?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Alkylbenzene

29. Claisen condensation is a reaction between two molecules of what compound?

- a) Alcohol
- b) Aldehyde
- c) Ester
- d) Ketone

30. Which coupling reaction involves the coupling of boronic acids with halides?

- a) Suzuki-Miyaura
- b) Heck
- c) Sonogashira
- d) Grignard

31. What is the product of the Stephen reaction?

- a) Alcohol
- b) Amide
- c) Nitrile
- d) Halide

32. Friedel-Crafts acylation involves the introduction of what functional group onto an aromatic ring?

- a) Alkyl group
- b) Acyl group
- c) Hydroxyl group
- d) Halogen group

33. What is the purpose of the Hoffmann

- a) Synthesis of alcohols
- b) Conversion of amides to amines
- c) Synthesis of aldehydes
- d) Conversion of amines to amides

34. What is the mechanism of the Baeyer-Villiger oxidation?

- a) Electrophilic aromatic substitution
- b) Nucleophilic substitution
- c) Oxygen insertion
- d) Free radical addition

35. What is the product of the Etard reaction?

- a) Alcohol
- b) Alkene
- c) Ketone
- d) Amine

36. What is the purpose of the Hell-Volhard-Zelinsky (HVZ) reaction?

- a) Halogenation of carboxylic acids
- b) Halogenation of alcohols
- c) Halogenation of aldehydes
- d) Halogenation of ketones

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37. What is the product of the Etard reaction?

- a) Alcohol
- b) Alkene
- c) Ketone
- d) Amine

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38. Wolff-Kishner reduction converts a carbonyl group into what functional group?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Alkane

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39. Which rearrangement involves the migration of an acyl group to form a new ketone or ester?

- a) Curtius
- b) Baeyer-Villiger
- c) Wolff
- d) Beckmann

40. What is the product of the Balz-Schiemann reaction?

- a) Alcohol
- b) Halide
- c) Ketone
- d) Ester

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41. What is Hinsberg's test used for?

- a) Detection of alcohols
- b) Differentiation of primary, secondary, and tertiary amines
- c) Detection of aldehydes
- d) Differentiation of alkanes and alkenes

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42. Willgerodt rearrangement involves the migration of what group?

- a) Hydroxyl group
- b) Alkyl group
- c) Aryl group
- d) Acyl group

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43. What type of reaction is the Sandmeyer reaction?

- a) Esterification
- b) Substitution
- c) Elimination
- d) Addition

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44. Which reagent is used in the Wittig reaction?

- a) Grignard reagent
- b) Phosphonium ylide
- c) Alkene
- d) Hydrogen peroxide

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45. Grubbs' catalysts are commonly used in which type of reaction?

- a) Hydrogenation
- b) Olefin metathesis
- c) Hydrolysis
- d) Reduction

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46. Heck reaction involves the coupling of an alkene with what compound?

- a) Alcohol
- b) Amine
- c) Halide
- d) Carboxylic acid

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47. Grubbs' catalysts are used in which type of reaction?

- a) Hydrogenation
- b) Olefin metathesis
- c) Hydrolysis
- d) Reduction

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48. What is the product of the Wurtz reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Ketone

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49. What type of reaction is the Bamford-Stevens reaction?

- a) Esterification
- b) Oxidation
- c) Reduction
- d) Hydrolysis

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50. What is the purpose of the Gabriel phthalimide synthesis?

- a) Synthesis of alcohols
- b) Synthesis of amines
- c) Synthesis of primary amines
- d) Synthesis of aldehydes

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51. What type of elimination reaction is Hofmann elimination?

- a) E1
- b) E2
- c) E1cb
- d) E3

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52. Aldol condensation involves the reaction between two molecules of what compound?

- a) Alcohol
- b) Amine
- c) Aldehyde or ketone
- d) Ester

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53. In the Baeyer-Villiger oxidation, what type of compound is converted into a ketone or ester?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Alkylbenzene

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54. Tollens' test is used to detect the presence of which functional group?

- a) Alcohol
- b) Amine
- c) Ketone
- d) Aldehyde

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55. What is the product of the Wurtz reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Ketone

56. Willgerodt rearrangement involves the migration of what group?

- a) Hydroxyl group
- b) Alkyl group
- c) Aryl group
- d) Acyl group

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57. Which reaction is commonly used for carbon-carbon bond formation?

- a) Coupling reaction
- b) Friedel-Crafts alkylation
- c) Wittig reaction
- d) Aldol condensation

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58. Which rearrangement involves the migration of an acyl group to form a new ketone or ester?

- a) Curtius
- b) Baeyer-Villiger
- c) Wolff
- d) Beckmann

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59. Beckmann rearrangement converts an oxime into what functional group?

- a) Alcohol
- b) Amide
- c) Alkene
- d) Ketone

60. What is the Huang-Minlong modification of?

- a) Fischer esterification
- b) Diels-Alder reaction
- c) Aldol condensation
- d) Beckmann rearrangement

61. What is the product of Wurtz-Fittig reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Alkene

62. Pinacol-pinacolone rearrangement converts a diol into what type of compound?

- a) Alcohol
- b) Ketone
- c) Ester
- d) Alkene

63. Willgerodt rearrangement involves the migration of what group?

- a) Hydroxyl group
- b) Alkyl group
- c) Aryl group
- d) Acyl group

64. Which of the following is not a rearrangement reaction?

- a) Curtius
- b) Wolff
- c) Beckmann
- d) Claisen

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65. Grubbs' catalysts are commonly used in which type of reaction?

- a) Hydrogenation
- b) Olefin metathesis
- c) Hydrolysis
- d) Reduction

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66. Swarts reaction is the conversion of an alkyl halide into what compound?

- a) Alcohol
- b) Ketone
- c) Fluorocarbon
- d) Amine

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67. In a cross aldol condensation, the reaction involves aldol condensation between two different what?

- a) Alcohols
- b) Amines
- c) Aldehydes or ketones
- d) Esters

68. What is the mechanism of the Baeyer-Villiger oxidation?

- a) Electrophilic aromatic substitution
- b) Nucleophilic substitution
- c) Oxygen insertion
- d) Free radical addition

69. Corey-House synthesis is used for the preparation of what functional group?

- a) Alcohol
- b) Alkyne
- c) Amine
- d) Carboxylic acid

70. What is the product of the Sonogashira coupling reaction?

- a) Alcohol
- b) Amine
- c) Alkyne
- d) Alkene

71. What is the purpose of the Fehling's test?

- a) Detection of alcohols
- b) Detection of aldehydes
- c) Detection of ketones
- d) Detection of amines

72. What type of reaction is the Reimer-Tiemann reaction?

- a) Reduction
- b) Hydrogenation
- c) Substitution
- d) Elimination

73. Swarts reaction converts an alkyl halide into what compound?

- a) Alcohol
- b) Ketone
- c) Fluorocarbon
- d) Amine

74. Pinacol-pinacolone rearrangement converts a diol into what type of compound?

- a) Alcohol
- b) Ketone
- c) Ester
- d) Alkene

75. Mannich condensation reaction involves the formation of what bond?

- a) Carbon-carbon
- b) Carbon-nitrogen
- c) Carbon-oxygen
- d) Carbon-sulfur

76. What is the product of Kolbe's reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Ketone

77. Gabriel phthalimide synthesis is a method for the preparation of what compound?

- a) Alcohol
- b) Amine
- c) Alkene
- d) Primary amine

78. Robinson annulation involves the synthesis of what type of compound?

- a) Alcohol
- b) Amine
- c) Cyclohexene
- d) Alkane

79. What is the product of the Stephen reaction?

- a) Alcohol
- b) Amide
- c) Nitrile
- d) Halide

80. Which of the following is not a component of the Suzuki-Miyaura coupling reaction?

- a) Palladium catalyst
- b) Boronic acid
- c) Grignard reagent
- d) Halide

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81. Rosenmund reduction converts a nitrile into what functional group?

- a) Alcohol
- b) Amine
- c) Aldehyde
- d) Ketone

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82. Darzen's glycidic ester synthesis converts an ester into what compound?

- a) Alcohol
- b) Amine
- c) Epoxide
- d) Aldehyde

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83. The Cannizzaro reaction involves the disproportionation of which compound?

- a) Alkene
- b) Aldehyde
- c) Ketone
- d) Alcohol

84. What is the purpose of the Tollens' test?

- a) Detection of alcohols
- b) Detection of aldehydes
- c) Detection of ketones
- d) Detection of amines

85. What is the purpose of the Gabriel phthalimide synthesis?

- a) Synthesis of alcohols
- b) Synthesis of amines
- c) Synthesis of primary amines
- d) Synthesis of aldehydes

86. What type of reaction is the Heck reaction?

- a) Substitution
- b) Addition
- c) Cross-coupling
- d) Elimination

87. What is the mechanism of the Corey-House synthesis?

- a) Electrophilic aromatic substitution
- b) Nucleophilic substitution
- c) Coupling of organometallic reagents
- d) Electrophilic addition

88. Which reaction is commonly used for carbon-carbon bond formation?

- a) Coupling reaction
- b) Friedel-Crafts alkylation
- c) Wittig reaction
- d) Aldol condensation

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89. What is the product of the Balz-Schiemann reaction?

- a) Alcohol
- b) Halide
- c) Ketone
- d) Ester

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90. What is the purpose of the Hell-Volhard-Zelinsky (HVZ) reaction?

- a) Halogenation of carboxylic acids
- b) Halogenation of alcohols
- c) Halogenation of aldehydes
- d) Halogenation of ketones

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91. What rearrangement involves the migration of an oxygen atom to form a new carbonyl group?

- a) Baeyer-Villiger
- b) Pinacol-pinacolone
- c) Claisen
- d) Beckmann

92. Which of the following is not a component of the Diels-Alder reaction?

- a) Dienophile
- b) Diene
- c) Alkene
- d) Transition metal catalyst

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93. Sonogashira coupling is a reaction between an alkyne and what compound?

- a) Alcohol
- b) Halide
- c) Amine
- d) Carboxylic acid

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94. Kolbe's reaction involves the electrolysis of what compound?

- a) Alcohol
- b) Amine
- c) Carboxylic acid
- d) Ketone

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95. What type of reaction is the Heck reaction?

- a) Substitution
- b) Addition
- c) Cross-coupling
- d) Elimination

96. Which reagent is used in the Grignard reaction?

- a) NaOH
- b) RMgX
- c) HCl
- d) H_2SO_4

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97. Which rearrangement involves the migration of an acyl group to form a new ketone or ester?

- a) Curtius
- b) Baeyer-Villiger
- c) Wolff
- d) Beckmann

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98. What is the product of Kolbe's reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Ketone

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99. Which of the following is not a component of the Sandmeyer reaction?

- a) Diazonium salt
- b) Copper salt
- c) Grignard reagent
- d) Nitrous acid

100. What is the product of the Wurtz-Fittig reaction?

- a) Alcohol
- b) Amine
- c) Alkane
- d) Alkene

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Answers

1. c	2. a	3. c	4. b	5. c
6. b	7. b	8. b	9. b	10. d
11. b	12. b	13. c	14. c	15. a
16. c	17. d	18. c	19. d	20. c
21. d	22. c	23. c	24. c	25. b
26. b	27. c	28. d	29. c	30. a
31. c	32. b	33. b	34. c	35. b
36. a	37. b	38. d	39. b	40. b
41. b	42. d	43. b	44. b	45. b
46. c	47. b	48. c	49. b	50. c
51. c	52. c	53. d	54. d	55. c
56. d	57. a	58. b	59. b	60. a
61. d	62. b	63. d	64. c	65. b
66. c	67. c	68. c	69. b	70. c
71. c	72. c	73. c	74. b	75. b
76. c	77. d	78. c	79. c	80. c
81. c	82. c	83. b	84. b	85. c
86. c	87. c	88. a	89. b	90. a
91. b	92. c	93. b	94. c	95. c
96. b	97. b	98. c	99. c	100. d

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