



CHEMISTRY

BOOKS - NAVNEET PUBLICATION

METALS AND NON-METALS

Question Bank

1. What are the three types in which the elements are generally classified?



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2. What are the metals and non-metals that we use in everyday life?



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3. Rewrite the sentence after filling the blank:
Gold of 100 % purity is ---- carat gold.



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4. Rewrite the sentence after filling the blank:

The stainless steel utensils used at home are made of an alloy of iron with carbon-----and-----



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5. Rewrite the sentence after filling the blank:

-----is used in medicines.



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6. Rewrite the sentence after filling the blank:

To prepare ornaments ----carat gold is used.



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7. Rewrite the sentence after filling the blank:

Non-metals are ----conductors of heat and electricity.



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8. Rewrite the sentence after filling the blank:

Non-metals form ---- oxides.



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9. Rewrite the sentence after filling the blank:

Some element can be hammered into thin sheets. This property is called ---- .



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10. Rewrite the sentence after filling the blank:

Iodine and ---- are the two non-metals having typical metallic lustre.



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11. Rewrite the sentence after filling the blank:

Non-metals form ---- ions by gain of electrons.



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12. Rewrite the sentence after filling the blank:

During formation of positively charged ion,
atom of metal -----.



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13. Rewrite the following statement by
selecting the correct option:

Metalloids have properties of ----- .

A. metals

B. non-metals

C. both metals and nonmetals

D. neither metals nor nonmetals

Answer: C



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14. Rewrite the following statement by selecting the correct option:

----is a metal.

A. Hg

B. S

C. P

D. Br

Answer: A



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15. Rewrite the following statement by selecting the correct option:

---- is a non-metal.

A. Aug

B. Ag

C. Br

D. Cu

Answer: C



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16. Rewrite the following statement by selecting the correct option:

---- is a metalloid.

A. Aluminium

B. Antimony

C. Zinc

D. Mercury

Answer: B



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17. Rewrite the following statement by selecting the correct option:

---- is a metal which is in liquid form at ordinary temperature.

A. Gallium

B. Magnesium

C. Sodium

D. Scandium

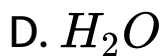
Answer: A



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18. Rewrite the following statement by selecting the correct option:

----is an acidic oxide.



Answer: B



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19. Rewrite the following statement by selecting the correct option:

The valence electron in ---- atom is 1.

A. magnesium

B. sodium

C. silicon

D. aluminium

Answer: B



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20. Rewrite the following statement by selecting the correct option:

The electronic configuration of oxygen is ----.

A. 2, 5

B. 2, 6

C. 2, 4

D. 2, 8, 6

Answer: B



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21. Rewrite the following statement by selecting the correct option:

Pure ---- is soft.

A. aluminium

B. silver

C. gold

D. platinum

Answer: C



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22. Rewrite the following statement by selecting the correct option:

---- Is a highly malleable metal.

A. Iron

B. Nickel

C. Manganese

D. Aluminium

Answer: D



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23. Rewrite the following statement by selecting the correct option:

22 carat gold is gold of ---- purity.

A. 100 %

B. 91.66 %

C. 75 %

D. 44 %

Answer: B



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24. State whether the following statement are

True or False:

Metals are sonorous.



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25. State whether the following statement are

True or False:

Diamond is the softest natural substance.



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26. State whether the following statement are

True or False:

The density of lithium is lower than water.



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27. State whether the following statement are

True or False:

Sulphur is brown in colour.



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28. State whether the following statement are

True or False:

Germanium is a metalloid.



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29. State whether the following statement are

True or False:

Ornaments are made from 24 carat gold.



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30. State whether the following statement are

True or False:

A reddish coloured deposit is formed on iron by reaction with oxygen.



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31. State whether the following statement are

True or False:

Palladium and rhodium are noble metals.



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32. State whether the following statement are

True or False:

The metal oxides are acidic in nature.



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33. State whether the following statement are

True or False:

The metal reacts with dilute acids to form a metal salt.



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34. Identify the odd term :

Magnesium,Mercury,Sodium,Iron.



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35. Identify the odd term :

Magnesium,Aluminium,Sulphur,Copper.



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36. Identify the odd term :

Iron,Copper,Graphite,Phosphorus.



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37. Identify the odd term :

Tin,Bronze,Steel,Stainless steel.



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38. Identify the odd term :

Gold,Silver,Iron,Diamond.



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39. Identify the odd term :

Ductility,Brittleness,Sonority,Malleability.



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40. Identify the odd term :

Carbon,Bromine,Sulphur,Phosphorus.



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41. Identify the odd term :

Brass,Bronze,Iron,Steel.



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42. Consider the relation between the item in the first pair and write the correlation for second pair:

Mercury : Metal : : Carbon : -----.



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43. Consider the relation between the item in the first pair and write the correlation for second pair:

Wood : Bad conductor of electricity :: Copper :

-----.



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44. Consider the relation between the item in the first pair and write the correlation for second pair:

Gold : Noble metal :: Copper : -----.



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45. Consider the relation between the item in the first pair and write the correlation for second pair:

Iron and carbon : Steel : : Copper and Tin : ----.



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46. Consider the relation between the item in the first pair and write the correlation for second pair:

O : 2, 6 : : Mg : ----.



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47. Match the columns :

(1) Column 'A'	Column 'B'
(1) Copper	(a) Low melting point
(2) Sodium	(b) Liquid
(3) Magnesium	(c) High melting point
(4) Boron	(d) Conduction of heat
	(e) 2, 8, 2



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48. Match the columns :





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49. Define the following :

Ductility :



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50. Define the following :

Malleability :



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51. Define the following :

Metalloids :



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52. Define the following :

Corrosion:



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53. Define the following:

Alloy



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54. Answer the following question in one sentence :

Name an alloy of copper and tin.



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55. Answer the following question in one sentence :

Name a metal which is in liquid state at ordinary temperature.



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56. Answer the following question in one sentence :

Name two metals which are malleable.



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57. Answer the following question in one sentence :

Name two metals which are good ductile.



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58. Answer the following question in one sentence :

Name two metals which are good conductors of heat.



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59. Answer the following question in one sentence :

Name two metals which are good conductors of electricity.



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60. Answer the following question in one sentence :

Name two non-metals which are in solid state at room temperature.



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61. Answer the following question in one sentence :

Name two non-metals which are gaseous state at room temperature.



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62. Answer the following question in one sentence :

Name the non-metal having electrical conductivity.



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63. Answer the following question in one sentence :

Name two non-metals which are lustrous.



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64. Answer the following question in one sentence :

Name two non-metals having high melting points.



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65. Answer the following question in one sentence :

State two metals which can be cut easily with a knife.





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66. Answer the following question in one sentence :

Which is the hardest natural substance ?



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67. Answer the following question in one sentence :

State the property of the metals for which they can be drawn into wires.



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68. Answer the following question in one sentence :

State the property of the metals to which they can be drawn beaten into sheets.



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69. Answer the following question in one sentence :

Which of the following metals react with cold water ? Sodium, iron, copper, potassium.



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70. Answer the following question in one sentence :

Which of the following metals do not react with cold water or hot water?



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71. Answer the following question in one sentence :

What are the constituents of stainless steel



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72. Answer the following question in one sentence :

State the terms used to express the purity of gold.



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73. Answer the following question in one sentence :

Name two metals having low melting points and boiling points.



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74. Answer the following question in one sentence :

name a non-metal which is an liquid state at room temperature.



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75. Answer the following question in one sentence :

State the atomic number and electronic configuration of sodium



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76. Answer the following question in one sentence :

State the atomic number and electronic configuration of aluminium



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77. Answer the following question in one sentence :

Give two example of metalloids.



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78. Answer the following question in one sentence :

State the atomic number and electronic configuration of nitrogen



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79. Answer the following question in one sentence :

A metal can be drawn into a wire Explain why.



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80. Answer the following question in one sentence :

A metal can be hammered into a thin sheet.

Explain why



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81. Answer the following question in one sentence :

State the properties of metals



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82. Answer the following question in one sentence :

State the properties of non metals



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83. Answer the following question in one sentence :

How are metal ions formed? Give two examples



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84. Answer the following question in one sentence :

Classify the following elements into metals and non-metals:

Silicon, gold, silver, sulphur, carbon, aluminium, copper and phosphorus



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85. Answer the following question in one sentence :

How are metal oxides formed? Explain with an example.



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86. Answer the following question in one sentence :

How will you show that metal oxides are basic in nature?





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87. Answer the following question in one sentence :

How do metals react with acid? Explain with an example.



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88. Answer the following question in one sentence :

How do metals react with water? Explain with an example.



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89. Answer the following question in one sentence :

How do non- metals react with oxygen?
Explain with an example.



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90. Answer the following question in one sentence :

How will you show that non-metal oxides are acidic in nature?



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91. Answer the following question in one sentence :

How are non-metal ions formed? Give two examples.





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92. Answer the following question in one sentence :

What is meant by noble metals? Give two examples



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93. Answer the following question in one sentence :

What are the uses of noble metals?



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94. Answer the following question in one sentence :

What is done to prevent corrosion of metals?



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95. Answer the following question in one sentence :

What are the adverse effects of corrosion?





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96. Answer the following question in one sentence :

What are the metals that make the alloys brass and bronze?



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97. Give Scientific reason:

The stainless steel vessel in kitchen have copper coating on the bottom



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98. Give Scientific reason:

Copper and brass vessel are cleaned with lemon



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99. Give Scientific reason:

Sodium metal is kept in kerosene



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100. Give Scientific reason:

Ornaments are generally not made from 24-carat gold



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101. Give Scientific reason:

Ships are painted of frequent intervals



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102. Give Scientific reason:

Gold and platinum are called noble elements



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103. Explain the following reactions with the help of balanced equations:

Magnesium combines with oxygen



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104. Explain the following reactions with the help of balanced equations:

Magnesium oxide reacts with dilute HCL



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105. Explain the following reactions with the help of balanced equations:

Magnesium reacts with dilute HCL



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106. Explain the following reactions with the help of balanced equations:

Sodium reacts with water



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107. Explain the following reactions with the help of balanced equations:

Carbon burns in air



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108. Explain the following reactions with the help of balanced equations:

Carbon dioxide reacts with sodium hydroxide



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109. Explain the following reactions with the help of balanced equations:

Carbon dioxide reacts with Water



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110. Explain the following reactions with the help of balanced equations:

Sulphur dioxide reacts with Water



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111. Explain the following reactions with the help of balanced equations:

Sulphur trioxide reacts with Water



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112. Write short note on:

The noble means



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113. Write short note on:

The purity of gold



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114. Write short note on:

Corrosion



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115. Write short note on:

Alloys



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116. Distinguish between the following:

Metals and Non-Metals



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117. Three experiments to study the process of rusting are given below. Observe the three test tubes and answer the following question



why the nail in the test tube 2 is not rusted?



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118. Three experiments to study the process of rusting are given below. Observe the three test tubes and answer the following question



why the nail in the test tube 1 is rusted highly?



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119. Three experiments to study the process of rusting are given below. Observe the three test tubes and answer the following question



would the nail in the test tube 3 get rusted?



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120. Complete the table:



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