

Here are the **Top 100 Chemistry Questions**, organized by key topics. These questions are great for school exams (Class 6–12), competitive exams (NEET, JEE, UPSC), Olympiads, and general knowledge.

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## A. Introduction to Chemistry (1–10)

1. What is chemistry?
  2. Who is known as the father of modern chemistry?
  3. What are the branches of chemistry?
  4. What is matter?
  5. What are the three states of matter?
  6. What is the difference between a physical change and a chemical change?
  7. What is an element?
  8. What is a compound?
  9. What is a mixture?
  10. What are atoms and molecules?
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## B. Atomic Structure (11–25)

11. What is an atom?
12. What are subatomic particles?
13. Who discovered the electron, proton, and neutron?
14. What is the atomic number?
15. What is the mass number?

16. What are isotopes?
  17. What is an ion?
  18. What is the Bohr model of the atom?
  19. What are orbitals and shells?
  20. What is the electronic configuration?
  21. What is valency?
  22. What is the octet rule?
  23. What is the difference between cation and anion?
  24. What is the nucleus of an atom?
  25. What is the role of neutrons in an atom?
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## **C. Periodic Table & Classification of Elements (26–35)**

26. Who created the periodic table?
27. What is the modern periodic law?
28. How are elements arranged in the periodic table?
29. What are groups and periods?
30. What are metals, nonmetals, and metalloids?
31. What are alkali metals?
32. What are halogens and noble gases?
33. What are transition elements?
34. What are lanthanides and actinides?

35. What are trends in the periodic table (e.g., atomic size, electronegativity)?

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## **D. Chemical Bonding (36–45)**

36. What is a chemical bond?

37. What is an ionic bond?

38. What is a covalent bond?

39. What is a metallic bond?

40. What is electronegativity?

41. What is polarity of bonds?

42. What is hydrogen bonding?

43. What is bond energy?

44. What is bond length?

45. What is the Lewis structure?

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## **E. States of Matter (46–55)**

46. What is diffusion?

47. What is evaporation?

48. What is sublimation?

49. What is melting point and boiling point?

50. What are the properties of solids, liquids, and gases?

- 51. What is gas pressure?
  - 52. What are gas laws (Boyle's Law, Charles's Law)?
  - 53. What is ideal gas equation?
  - 54. What is plasma?
  - 55. What is Bose-Einstein condensate?
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## **F. Chemical Reactions and Equations (56–65)**

- 56. What is a chemical reaction?
  - 57. What are the types of chemical reactions?
  - 58. What is a balanced chemical equation?
  - 59. What are exothermic and endothermic reactions?
  - 60. What is a catalyst?
  - 61. What is a reactant and product?
  - 62. What is a decomposition reaction?
  - 63. What is a displacement reaction?
  - 64. What is a neutralization reaction?
  - 65. What is redox reaction?
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## **G. Acids, Bases, and Salts (66–75)**

- 66. What is an acid?

- 67. What is a base?
  - 68. What is the pH scale?
  - 69. What is neutralization?
  - 70. What are strong and weak acids/bases?
  - 71. What are indicators (litmus, methyl orange)?
  - 72. What is baking soda chemically?
  - 73. What is bleaching powder?
  - 74. What is the common salt's chemical name?
  - 75. What is the use of antacids?
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## **H. Metals and Non-Metals (76–85)**

- 76. What are the properties of metals?
- 77. What are the properties of non-metals?
- 78. What is reactivity series?
- 79. What is corrosion?
- 80. What is galvanization?
- 81. What is the extraction of metals?
- 82. What is electrolysis?
- 83. What is an alloy?
- 84. What is displacement of metals?
- 85. What is the difference between ductility and malleability?



## **I. Carbon and Organic Chemistry (86–95)**

- 86. What is an organic compound?
- 87. What is carbon and its valency?
- 88. What is homologous series?
- 89. What are hydrocarbons?
- 90. What is the difference between saturated and unsaturated hydrocarbons?
- 91. What are alcohols, ketones, and acids?
- 92. What is isomerism?
- 93. What are polymers?
- 94. What is ethanol used for?
- 95. What is soap and how is it made?



## **J. General and Applied Chemistry (96–100)**

- 96. What is the role of chemistry in daily life?
  - 97. What is green chemistry?
  - 98. What are fertilizers and pesticides?
  - 99. What is water treatment?
  - 100. What are recent advancements in chemistry?
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