

Chemistry 9th class important guess

Short questions

- 1. What is difference b/w physical and analytical chemistry?**
- 2. Difference b/w organic & inorganic chemistry?**
- 3. Difference b/w industrial & environmental chemistry**
- 4. What is difference /w homogeneous & heterogeneous mixtures?**
- 5. Differentiate b/w compound & mixture**
- 6. What is meant by relative atomic mass & amu?**
- 7. Differentiate b/w empirical & molecular formula**
- 8. Explain element and valency**
- 9. Differentiate b/w atom & ion**
- 10. Differentiate b/w homoatomic and heteroatomic molecules**
- 11. What is meant by avogadro's number?**
- 12. What is mole?**
- 13. Differentiate b/w molecule & molecular ion**
- 14. Describe the properties of cathode rays**
- 15. How neutrons was discovered?**
- 16. Describe the results of Rutherford's model**
- 17. Give properties of canal rays**
- 18. Describe the defects of Rutherford's model**
- 19. Write down postulates of Bohr atomic model**
- 20. Give comparison b/w Rutherford's / Bohr's atomic model**
- 21. Electronic configuration of first 20 elements specially
(N, O, Ne, Na, Mg, P, S, Ar)**
- 22. Describe two uses of isotopes**
- 23. Describe no of subshells in a shell**
- 24. What is meant by carbon dating?**
- 25. State periodic Law**
- 26. What is shielding effect? give its trend along period & group**
- 27. What is electronegativity? give its trend along period & group**
- 28. What is ionization energy? give its trend along period & group**
- 29. What is meant by atomic size? give its trend along period & group**

30. Why Na has less ionization energy than Mg?
31. Define atomic radius.
32. Define Dobereiner triade
33. What is meant by electron affinity?
34. Why ice floats on water?
35. Difference octet & duplet rule
36. What is meant by ionic bond? Give example
37. Differentiate b/w polar & non-polar covalent compounds
38. What is meant by H. bonding
39. Explain single and double covalent bond with example
40. What is meant by coordinate covalent bond?
41. Explain formation of bond b/w NH_3 & BF_3
42. What is meant by intermolecular forces?
43. Explain dipole-dipole interactions
44. Why ionic compounds do not conduct in solid state?
45. Give 2 properties of covalent compounds
46. Difference b/w malleability and ductility
47. Differentiate b/w diffusion & effusion
48. State Boyle's Law. Relation b/w pressure and volume
49. State Charles's Law. Relation b/w temperature and volume
50. Describe factors affecting vapour pressure
51. Define allotropy
52. Define boiling point. Factors affecting boiling point
53. Why gases diffuse more rapidly than liquids?
54. Evaporation causes cooling. Why?
55. Difference b/w amorphous and crystalline solids
56. Define absolute temperature
57. Explain transition temperature
58. What is meant by molarity
59. Difference b/w saturated & unsaturated solutions
60. Difference b/w supersaturated and dilute solutions
61. Describe principle of solubility
62. Describe process necessary for solute-solvent interaction
63. Describe solubility of NaCl in water
64. Difference b/w solution and suspension

65. Define Tyndal effect. Factors effecting it
66. Describe effect of temperature on endothermic reaction
67. Table of types of solution
68. Define v/v%
69. What is meant by redox reaction give example
70. Explain oxidation and reduction terms
71. Difference b/w spontaneous and non-spontaneous reaction
72. Difference b/w oxidizing and reducing agent
73. Difference b/w strong and weak electrolytes. give example
74. Define electrolysis
75. What is salt bridge. give its function
76. Difference b/w electrolytic & galvanic cell
77. Write down reactions of down's cell
78. What are the by-products of Nelson's cell
79. What is brine?
80. Define corrosion. Methods to avoid corrosion
81. Why iron gauze is being painted?
82. What is meant by galvanizing?
83. What is meant by electroplating?
84. Method of chromium electro plating
85. How electroplating of Zn and Tin is done
86. What is meant by oxidation state . find oxidation state of different elements
87. Describe properties of metals and non-metals
88. Why HF is a weak acid?
89. Give uses of silver and gold
90. Why pure Gold can't be use for making ornaments?
91. What is meant by electropositivity?
92. Uses of Ca and Mg
93. Uses of Na
94. Why Pt is used for making jewelry
95. Why Cl is more metallic than F
96. Give reaction of Na with water and Oxygen
97. Describe inertness of silver and gold
98. Give reaction of Mg with nitrogen and water

99. What is meant by m/v% and v/m%?

100. What is meant by colloidal solution?

Important Extensive Questions

Set A (80-95% chances)

1. Difference b/w compounds and mixtures...Important
2. Explain difference b/w following with example
 - a) Molecule & Gram molecule
 - b) Atom & Gram atom
 - c) Molecular mass & Molar mass
 - d) chemical & Gram formula
3. Compare properties of Cathode and Anode rays
4. Describe postulates of Bohr's theoryV.important
5. What is meant by covalent bond. Explain its types
6. What is meant by H. Bonding explain it...v.imp
7. Describe properties and type of solids
8. What is solubility? Describe effect of temperature on solubility
9. Differentiate b/w types of solutions...imp
10. Explain electrolysis of water
11. Explain preparation of NaOH By brine....most imp

Set B (60-75% chances)

1. Define chemistry. Note on its four branches
2. What is meant by electrolytic refining of Copper
3. Describe rules of assigning oxidation number. example

- 4. What is meant by electrolytes, describe its types**
- 5. Explain boyle's and Charle's Law....Imp**
- 6. What is meant by vapour pressure. Factors effecting it....Imp**
- 7. Camprison b/w rutherford's and bohar theories**
- 8. Define Isotopes.. give uses of isotopes**

M.Ai/03234594185

M.Ai/03234594185