



1. Large amounts of atomic hydrogen are present in the atmosphere of_____.
(a) Earth (b) Sun (c) Moon (d) None of these
2. Hydrogen atom contains_____electrons.
(a) One electron (b) Two electrons (c) Four electrons (d) None of these
3. During the electrolysis of water hydrogen is liberated at the_____.
(a) Anode (b) Cathode
(c) Anode and cathode both (d) None of these
4. The atomic weight of hydrogen is_____.
(a) 1.00 a m u (b) 1.008 a. m .u (c) 6.0 a. m. u (d) None of these
5. In nature hydrogen exists in_____.
(a) Gaseous state (b) Solid state (c) Liquid State (d) Plasma state
6. _____is the lightest gas.
(a) Nitrogen (b) Helium (c) Oxygen (d) Hydrogen
7. Hydrogen generally combines with other elements to form_____.
(a) Ionic bond (b) Covalent bond (c) Polar bond (d) None of these
8. The atoms of the same element, which have the same atomic number but different massnumbers, are called____.
(a) Isotopes (b) Actinides (c) Isobar (d) None of these
9. A tritium nucleus has_____.
(a) One proton and two electrons (b) One proton and two neutrons
(c) One neutrons and two protons (d) One proton and three neutrons
10. Physical properties of elements depend upon the number of_____.
(a) Protons in the nucleus (b) Neutrons in the nucleus
(c) Electrons in the valence shell (d) Both protons and neutrons in the nucleus
11. Chemical properties of elements depend upon the number of_____.
(a) Electrons in the valence shell (b) Protons in the nucleus
(c) Neutrons in the nucleus (d) Protons and neutrons in the nucleus
12. Hydrogen is an important constituent of_____.
(a) Water (b) Petroleum (c) Natural gas (d) All of these
13. Carbon and silicon are the first two members of_____group elements in the periodictable.
(a) III A (b) IV A (c) II A (d) I A
14. Carbon and silicon contain_____electrons in their valence shells.
(a) Four (b) Five (c) Six (d) Two



15. Carbon and silicon form four ___ bonds when combine with other elements.
(a) Ionic (b) Co-ordinate covalent (c) Covalent (d) None of these
16. Diamond, graphite and bucky balls are the three _____ forms of carbon.
(a) Amorphous (b) Crystalline (c) Solid (d) Allotropic
17. Coke, coal and lampblack are the _____ forms of carbon.
(a) Amorphous (b) Crystalline (c) Solid (d) Allotropic
18. Diamond crystal is usually _____ in shape.
(a) Tetrahedral (b) Octahedral (c) Cubical (d) All of these
19. Graphite occurs naturally as _____.
(a) Bort (b) Carbando (c) Plumb ago (d) All of these
20. _____ is a bad conductor of electricity.
(a) Graphite (b) Silicon (c) Oxygen (d) Diamond
21. Graphite is a _____ conductor of electricity.
(a) Good (b) Bad (c) Week (d) Moderate
22. Silicon is the second most _____ element in the earth's crust after _____.
(a) Oxygen, abundant (b) Hydrogen, abundant (c) Carbon, scarce (d) None of these
23. The molecular formula of sand is _____.
(a) SiO_3 (b) SiO_2 (c) Si (d) SiO_4
24. Nitrogen is present up to _____% by volume in the earth's atmosphere.
(a) 78 (b) 82 (c) 88 (d) 62
25. Nitrogen was discovered by a Scottish Botanist _____.
(a) Robert Clay (b) Daniel Rutherford (c) Bohr (d) Charles
26. Nitrogen belongs to _____ group in the periodic table.
(a) IIA (b) IIIA (c) VIA (d) VA
27. Nitrogen contains _____ electrons its valence shell.
(a) 1 (b) 3 (c) 5 (d) 7
28. Oxygen contains _____ electrons in its valence shell.
(a) 1 (b) 2 (c) 4 (d) 6
29. Oxygen constitutes about _____% by mass of water present on earth's surface.
(a) 78.8 (b) 88.8 (c) 98.8 (d) 11.2
30. _____ is the most abundant element on earth's crust.
(a) Hydrogen (b) Nitrogen (c) Oxygen (d) Carbon
31. The atomic number of sulphur is _____ while atomic mass is _____ a.m.u.
(a) 16, 32 (b) 8, 16 (c) 9, 19 (d) 11, 23



32. _____ recognized sulphur as an element.
(a) Rutherford (b) Pascal (c) Lavoiser (d) Dalton
33. The existence of an element in two or more different forms in the same physical state is called _____.
(a) Allotropes (b) Allotropy (c) Modification (d) Ore
34. The elements, which exist in two or more forms and differ only in their physical structure are called _____.
(a) Allotropes (b) Allotropy (c) Modification (d) Ore
35. Rhombic sulphur is _____ crystalline solid.
(a) Diagonal (b) Hexagonal (c) Tetrahedral (d) Octahedral
36. Monoclinic sulphur is _____ like crystalline solid.
(a) Needle Powder (b) Square (c) Cubic (d)
37. The temperature at which both rhombic sulphur and monoclinic sulphur forms coexist in equilibrium is called as _____ temperature.
(a) Threshold (b) Transition (c) Fixed (d) Low
38. The transition temperature of sulphur is _____ °C.
(a) 96 (b) 94 (c) 94.5 (d) 100
39. _____ sulphur is non-crystalline form of sulphur.
(a) Monoclinic (b) Rhombic (c) Plastic (d) None of these
40. The _____ are the VIIA group elements in the periodic table.
(a) Halogens Alkaline (b) Nobel gases (c) Inert gases (d)
41. Halogens are the _____ producing elements.
(a) Alcohol (b) Salt (c) Water (d) Base
42. _____ is the member of halogen family is radioactive.
(a) Chlorine (b) Fluorine (c) Bromine (d) Astatine
43. Halogens exist as _____ molecules.
(a) Monoatomic Polyatomic (b) Triatomic (c) Diatomic (d)
44. Halogens contain _____ electrons in their valence shell.
(a) Three (b) Four (c) Six (d) Seven
45. Halogens are so _____ that they cannot exist in free state in nature.
(a) Reactive Unstable (b) Unreactive (c) Stable (d)
46. Sea water contains about _____ NaCl.
(a) 30% (b) 3% (c) 0.3% (d) 0.03%
47. _____ is the dark brown volatile liquid.
(a) Fluorine (b) Chlorine (c) Bromine (d) Iodine
48. _____ is the black shining low melting solid.
(a) Fluorine (b) Chlorine (c) Bromine (d) Iodine



49. _____ can replace all other halogens from the solution of their salts.
(a) Silver (Ag) (b) Gold (Au) (c) Mercury (Hg) (d) Sodium (Na)
50. I₂ dissolved in alcohol is called _____.
(a) Iodine (b) Tincture (c) Water (d) None of these
51. _____ in the periodic table are classified mainly as metals and non-metals.
• Elements (b) Gases (c) Solids (d) Liquids
52. All metals except _____ are solids.
• Nitrogen (b) Iron (c) Mercury (d) Oxygen
53. Metals give off notes while hitting with hammer, this property of metal is known as _____.
(a) Conductor (b) Sonorous (c) Electrolyte (d) None of these
54. Metals have great _____ strength.
• Fragile (b) Ductile (c) Tensile (d) None of these
55. _____ is considered as light metal.
• Nitrogen (b) Lithium (c) Calcium (d) Carbon
- a
56. _____ Chemistry is the study of carbon containing compounds.
(a) Organic (b) Inorganic (c) Industrial (d) Environmental
57. Compounds consisting of _____ and _____ are known as hydrocarbons.
(a) Carbon, Oxygen (b) Carbon, Hydrogen
(c) Hydrogen, Oxygen (d) Oxygen, Nitrogen
58. There are _____ major kinds of hydrocarbons.
(a) Three (b) Four (c) Five (d) Six
59. _____ theory was based on source but not on composition.
(a) Graham's (b) Ohm's (c) Maxwell (d) Vital force
60. _____ converted an inorganic compound (ammonium cyanate) into an organic compound (urea)
(a) Wohler (b) Archimedes (c) Kolbe (d) Boyle
61. Kolbe synthesized acetic acid a chief component of _____.
(a) Curd (b) Vinegar (c) Acid (d) Base
62. The formula for urea is _____.
(a) NH₂-C-NH₂ (b) NH₂-CH₃-NH₂ (c) NH₂-CO-NH₂ (d) NH₄ CNO
63. Hydrocarbons, which contain single bonds, are called _____.
(a) Alkanes (b) Alkenes (c) Alkynes (d) None of these
64. Hydrocarbons, which contain double bonds, are called _____.
(a) Alkanes (b) Alkenes (c) Alkynes (d) None of these
65. Hydrocarbons, which contain triple bonds, are called _____.
(a) Alkanes (b) Alkenes (c) Alkynes (d) None of these



66. Sodium hydroxide is prepared at large scale by the following methods.
- | | |
|---------------------------------|---------------------------|
| (a) Electrolytic process | (b) Saponification method |
| (c) Hydrolysis | (d) Dehydration |
67. Sodium hydroxide at 318 °C:
- | | |
|------------------------------------|---------------------|
| (a) Melts with decomposition | (b) Does not melt |
| (c) Melts to a clear liquid | (d) Converts to gas |
68. Carbon dioxide and sodium hydroxide react to give:
- | | |
|---------------------------------------|--------------------------------|
| (a) Sodium carbonate and water | (b) Sodium carbonate only |
| (c) Sodium metal and water | (d) Sodium and carbon monoxide |
69. When sodium hydroxide reacts with ammonium chloride, it liberates gas:
- | | |
|--------------------|--------------------|
| (a) Carbon dioxide | (b) Hydrogen |
| (c) Oxygen | (d) Ammonia |
70. Sodium hydrogen carbonate used in medicine which of the effects it causes in the stomach?
- | | |
|-----------------------------------|---------------------------|
| (a) Increase the basicity | (b) Increase the acidity |
| (c) Neutralize the acidity | (d) Decrease the basicity |
71. The product/products obtained by reaction of sodium carbonate with carbon dioxide in aqueous medium is/are:
- | | |
|--------------------------------|--------------------------------------|
| (a) Sodium hydroxide | (b) Sodium hydrogen carbonate |
| (c) Sodium carbonate and water | (d) Sodium oxide |
72. Carbonates and bicarbonate of sodium are manufactured by:
- | | |
|-----------------------|-----------------------------------|
| (a) Contact method | (b) Ammonia solvay process |
| (c) Ostwald's process | (d) Haber's method |