Ch-3 Atoms and Molecules

1. Explain the molecular mass of C_2H_5OH.
2. Explain the law of constant proportion.
3. Explain the difference of O_2 and 2O.
4. Find the number of moles in 7g of Na.
5. What is the atomicity of $Ca(OH)_2$?
6. Write the formula for Aluminium Chloride.
7. State the difference between sodium atom and sodium ion.
8. What is formula unit mass? How is it different from molecular mass?
9. Define valency and give valency of copper and iron.
10. Calculate the mass of one molecule of chlorine.
11. Define polyatomic ion. Give one example.
12. What is Law of conservation of mass and Law of constant proportions?
13. What is an ion? Explain the types of ion with examples.
14. Find the molecular mass of H_2O.
15. Define the term valency. What is the valency for magnesium and copper?
16. What is the difference between cation and anion?
17. What is atomicity? What is the atomicity of phosphorus and nitrogen?
18. Find the number of atoms in 0.5 mole of C atom.
19. Find the mass of 1.5 mole of CO_2 molecule.
20. Calculate the formula unit mass of NaCl and $CaCl_2$.
21. What is the difference between molecules 2O and O_2?
22. What are the rules for writing the symbol of an element?
23. Explain relative atomic mass and relative molecular mass.
24. What is the relationship between mole, Avogadro number and mass?
25. How do atoms exist?
26. Define a mole. What is the importance of a mole?
27. Calculate the mass of one atom of oxygen.
28. Calculate the mass of one ion of oxygen.
29. What do you understand by atomic mass and Gram atomic mass of an element?
30. The formula of water is H2O. What do you understand by this formula?
31. State the Law of conservation of mass and the Law of constant proportion with examples.