

CHEMISTRY

21. Exhausted zeolite is regenerated by treating with an aqueous
(1) NaCl Solution (2) HCl Solution
(3) NaOH Solution (4) CaCl₂ Solution
22. 6.022×10^{23} is known as _____
(1) Loschmidt number
(2) Avogadro number
(3) Boltzmann constant
(4) Universal gas constant
23. Dihedral angle of H₂O₂ in gas phase is
(1) 90.2° (2) 109.5°
(3) 111.5 °C (4) 120°
24. Auto-oxidation of 2-ethylanthraquinol gives
(1) H₂ (2) H₂O₂
(3) HCl (4) CH₃OH
25. Number of significant digits in 0.200 g is
(1) 1 (2) 2
(3) 3 (4) 4
26. Law of multiple proportions is not valid for the pair of
(1) H₂O and H₂O₂ (2) CO and CO₂
(3) CH₄ and CO₂ (4) CH₄ and C₂H₆
27. An element has two isotopes having atomic mass 10 and 15 u respectively. If the abundance of lighter isotope is 80% then the average atomic mass of the element is
(1) 9 u (2) 11 u
(3) 12 u (4) 14 u
28. 88 g of CO₂ contains (N_A = Avogadro's No.)
(1) N_A molecules
(2) 2N_A molecules
(3) 0.5 N_A molecules
(4) 4N_A molecules
29. Which contains least number of molecules
(1) 1 g CO₂ (2) 1 g N₂
(3) 1 g O₂ (4) 1 g H₂
30. Which of the following contains largest number of atoms?
(1) 4 g of H₂ (2) 16 g of O₂
(3) 28 g of N₂ (4) 18 g of H₂O