

CHEMISTRY**CLASS 11 NCERT Chapters**

		Questions	Easy	Average	Difficult
1	Some basic concepts of Chemistry	1	1	0	0
2	Structure of Atom	1	1	0	0
3	Classification of elements and periodicity in properties	0	0	0	0
4	Chemical Bonding and molecular structure	1	0	1	0
5	States of Matter	1	0	1	0
6	Thermodynamics	1	1	0	0
7	Equilibrium	1	1	0	0
8	Redox reactions	0	0	0	0
9	Hydrogen	1	1	0	0
10	The s -block elements	0	0	0	0
11	Some p block elements	0	0	0	0
12	Organic chemistry some basic principles and techniques	2	1	1	0
13	Hydrocarbons	1	1	0	0
14	Environmental Chemistry	0	0	0	0
	Class 11 Total	10	7	3	0

CLASS 12 NCERT Chapters

15	The Solid State	2	2	0	0
16	Solutions	1	1	0	0
17	Electrochemistry	4	2	1	1
18	Chemical Kinetics	1	0	1	0
19	Surface Chemistry	0	0	0	0
20	General principles and processes of isolation of elements	0	0	0	0
21	The p-Block Elements	1	0	1	0
22	The d and f-Block Elements	1	1	0	0
23	Coordination Compounds	2	1	1	0
24	Haloalkanes and Haloarenes	1	0	1	0
25	Alcohols, Phenols and Ethers	1	1	0	0
26	Aldehydes, Ketones and Carboxylic acids	2	1	0	1
27	Amines	2	1	1	0
28	Biomolecules	1	1	0	0
29	Polymers	1	1	0	0
30	Chemistry in Action	0	0	0	0
	Class 12 Total	20	12	6	2
	Total Class 11 & 12	30	19	9	2

Question-by-Question Analysis

(Test Booklet – 5)

The Questions are arranged Chapter-wise hence the numbering is shuffled.

Some Basic concepts of Chemistry

47. An easy numerical based on mole concept involving *calculation of the ratio of the no. of molecules of gases whose mass ratio is given.*

Structure of Atom

31. An easy application based question involving application of different sets of rules for calculating the value of all the four quantum numbers.

Chemical Bonding and molecular structure

44. An average concept based question involving determination of molecular behavior of hetero-atomic molecule on the basis of its molecular orbital configuration.

States of Matter

32. An average application based question on van der Waals equation involving calculation of compressibility factor Z.

Thermodynamics

36. A direct numerical involving calculation of enthalpy of combustion ΔH_c in calorimetry.

Equilibrium

39. An easy numerical based on relation between K_p and K_c involving calculation of change in no of moles.

Hydrogen

45. An easy concept based question to find out the behavior of H_2O_2 as a reducing agent.

General Organic Chemistry

34. An easy numerical based on Kjeldahl method involving *calculation of the percentage of nitrogen.*

57. An average concept based question based on the determination of dipole moment in aromatic compounds.

Hydrocarbons

54. An easy fact based question involving reaction of trichloro-ethane with silver powder to finding out the correct product.

Solid State

33. An easy numerical based on packing of constituents in body centered cubic lattice involve finding relation between radius of constituents and edge length.

46. An easy fact based question to find out the correct set of constituents of CsI_3 .

Solutions

38. An easy numerical based on calculation of osmotic pressure providing four solutions of different strength and based on results mark the correct statement.

Electrochemistry

35. A difficult numerical with lengthy calculations based on conductance of electrolytic solutions involving calculation of molar conductivity.

37. An easy formula based question based on Debye Huckle Onsager equation.

42. An easy fact based question on salt electrolysis which involves finding out the metal which cannot be obtained from its salt solution on electrolysis.

48. An average numerical based on the spontaneity of electrode reactions involving calculations of standard electrode potential.

Chemical kinetics

40. An average numerical based on rate law involving determination of rate law for the given chemical equation providing different data in separate experiments.

P block elements

41. An average concept based question to find the order of acidic strength of 4 hypohalous acids.

d and f block elements

49. An easy fact based question to spot the correct chemical reaction of Iron and its compounds.

Co-ordination compounds

43. An average application based question involving determination of strength of monodentate ligands based on crystal field theory.

50. An easy fact based question to spot the correct chemical reactions shown by different compound.

Haloalkanes and haloarenes

51. An average concept based question based on reactivity order of different alkyl halides differing by number of alkyl groups attached to it towards nucleophilic substitution reactions $\text{S}_{\text{N}}2$.

Alcohols phenols and ether

53. An easy fact based question to find the suitable reagent to obtain aldehyde from reduction of primary alcohols.

Aldehydes ketones and carboxylic acids

55. A difficult application based question on formation of acetyl salicylic acid (aspirin) from ethoxide.

60. An easy concept based question on conversion of acetic acid to ethylene undergoing through various steps.

Amines

52. An easy fact based question for the identification of product formed by an aliphatic primary amine on carbylamine reaction.

56. An average application based question on basic strength of three amines (differing in number of alkyl or aryl group attached to it) in an aqueous solution.

Biomolecules

59. An easy fact based question to mark the correct base present in the structure of DNA.

Polymers

58. An easy fact based question to find out the condensation polymers among the given options