

Most Important Guess Paper 2025

"یہ گیس پیپر اتنا اہم ہے کہ آپ کی محنت اور یہ سوالات آپ کو کامیابی کی بلندیوں تک پہنچائیں گے، انشاء اللہ! ان کو اچھی طرح تیار کر لیں۔"

Most Important Short Questions

Chapter No # 1

Physical & chemical properties, biochemistry, symbol, valency and variable valency, Define element and compound, Cation and anion, Avogadro no. and mole, formula unit and formula mass, Free radical how it is generated, relative atomic mass, Radical

Example NO. 1, 2,3,5

TOP MOST IMP (S.Q+L.Q): atomic number and mass number, empirical and molecular formula with example, significance of chemical formula, Difference between molecule and molecular ion,

Difference between atom and ion. Element and its classification

Exercise Questions: 1-2(S.Q & L.Q), 3-6, 8, 9, 10, 12, 18

Chapter No # 2

Plum pudding theory, Properties of neutron, observations and defects of Rutherford's, quantum, Nucleon, name of shell and sub shell with its accommodation of E, Carbon dating, **Example NO. 1, 2,3**, two uses of isotopes, why positive rays called canal rays? Why vacuum in cathode discharge tube is low?

TOP MOST IMP (S.Q+L.Q): Difference between Rutherford's and bohar theory, Properties of positive rays and cathode Rays, electronic configuration of S, Cl, F, Ne, Na, Mg, B, N, Ar, Electronic configuration and its 3 basic requirements, Isotopes and describe the isotopes of hydrogen with diagram

Exercise Questions: 1, 4, 5,7(C), 9, 10, 13

Test Yourself: 2.1 (1,2,3), 2.3(2, 3, 5, 10), 2.4 (1, 6, 9)

Chapter No # 3

Debiere triads and Newland law of octaves, Periodic function, block and transition element, 1st period and group elements, atomic radius with unit and example, trend of I.E and atomic size in period and group, Define I.E, E.A and E.N with example, shielding effect with its trend, Zeff, short and long period

Exercise Questions: 1, 3, 4, 5, 6, 8, 9

Test Yourself: 3.2(1,4,10,12,14), 3.3 (3, 8, 9,10)

Chapter No # 4

Chemical bond, ionic, covalent and coordinate covalent bond, metallic bond, delta sign, intermolecular forces, hydrogen bonding, why B.P of water is high? Why chlorine accept

only one electron, why electrons move freely, why BF_3 electron deficient, why a dipole develops in molecule? How energy changes occur in covalent bond formation? Malleable and ductile?

TOP MOST IMP (S.Q+L.Q): Duplet and octet rule, how do atoms follow octet rule? Chemical bond and why do atoms form chemical bond, Four properties of metals

Exercise Questions: 1, 3, 5, 7, 8, 9, 10, 12, 15, [16 & 17] (S.Q+L.Q)

Test Yourself: 4.4(1,2,3)



Chapter No # 5

Effusion diffusion and pressure, barometer and manometer, Boil's law and Charles law, why gases compressible? Evaporation and condensation, evaporation cause cooling, absolute temperature scale, vapor pressure, dynamic equilibrium, hypertension, two factors of vapor pressure, conversion of temp, transition temperature with example, Allotropy (S.Q & L.Q), **Types of solids (S.Q & L.Q) V IMP**

Exercise Questions: 2, 3, 4, 5, 7

Test Yourself: 5.4(1, 3, 4, 8)

Chapter No # 6

Why solution considered mixture? Why alloys considered solutions? Solution, Aqueous solution, solute and solvent, unsaturated solution and how it changes to saturated? unsaturated and supersaturated solution, why water is universal solvent, dilute and concentrated solution, alloy, M/V, M/M, Molarity, solubility, like dissolve like, tyndal effect and its factors

Exercise Questions: 1-4, 6, 11, 12

Test Yourself: 6.3(3,4), 6.4 (3, 4, 5)

Chapter No # 7

number with two rules, redox reactions, electrolyte and non-electrolyte, electrochemical cell, electrolysis, brine, electroplating and alloy, principle of electroplating, corrosion and rusting with important condition, galvanizing and its advantages, steel and stainless steel? Anode and cathode difference, salt bridge with its function, electroplating of zinc, **Difference between electrolytic and galvanic cell (S.Q+L.Q)**, Find oxidation No. HNO_2 , Na_2SO_4

Example No. 1, 2, 3

Exercise Questions: 3- 6, 11, 13, 15, 17, 18, 19

Chapter No # 8

Metals and non-metals define, two physical and chemical properties of metals and non-metals, electro positivity with its trend, why platinum used in jewelry, application of silver, two uses of gold, 24 Carat, why HF is weak acid, halogen name with colors, reaction of halogen with water, why oxygen is non-metals? Uses of sodium, calcium and magnesium, Reaction of Mg with O_2 , N_2 ? Compare alkali and alkaline earth metals, Reaction of Chlorine(Cl) with methane and NaOH? How non-metals are essential for existence of life?

Exercise Questions: 1, 4, 6, 7, 8, 10, 11, 12, 15, 17, 18

Most Important Long Questions



Question No # 5

How to write a chemical formula? (V.V.IMP)

Difference b/w Compound & Mixture (V.V.V.V.IMP) Molecules it's types (V.V.V.V.IMP)

Define Mole and Avogadro's Number and explain it with examples.

Ionic bond with the formation of NaCl (V.V.V.V.IMP)

Covalent bond with its types (V.V.IMP)

Coordinate Covalent bond with examples (V.V.IMP) Hydrogen Bonding (V.V.IMP)

Question No # 6

Rutherford Atomic model structure with its results (V.V.V.V.IMP)

Bohr's Atomic model structure with its Postulates (V.V.V.V.IMP)

Discovery of Neutron (V.IMP) Uses of isotopes in daily life (V.V.IMP)

Charles's / Boyle's law mathematical & experimental verification (V.V.V.V.IMP)

Vapor pressure & it's factors (V.V.IMP) Boiling point & it's factors (V.V.V.IMP)

Question No # 7

Rules of Oxidation number (V.V.V.IMP) Electrolysis of water (V.V.IMP)

Describe the working of an electrolytic cell. (V.IMP)

Electroplating procedure and explain electroplating of chromium (V.V.IMP)

Effect of temperature on solubility (V.V.V.IMP)

Properties of solution, colloid and suspension. (V.V.IMP)

Write a note on super saturated solution. (V.IMP)

- **Short questions have also been taken from the long questions.**
- **It is best to prepare the first 2 pairs for longer questions (CH # 1 and 4, 2 and 5) while the third pair is optional (CH # 6 and 7).**
- **"Bold questions are very important, so make sure to focus on them!"**

نوٹ: "MCQs کے لیے، آپ Pakcity.org کی ویب سائٹ سے اس گیس پیپر کی مکمل فری PDF فائل ڈاؤن لوڈ کر سکتے ہیں، جس میں پچھلے تمام سالوں کے تمام بورڈ کے پیپر چیپٹر وائز حل کیے گئے ہیں۔"

"پاک سٹی کی ویب سائٹ www.pakcity.org پر آپ کو تمام کلاسز کے نوٹس، ایم سی کیوز، انتہائی اہم ترین گیس پیپرز، پاسٹ پیپرز اور ٹیسٹ سیریز دستیاب ہیں۔ ہمارے یوٹیوب چینل پر تعلیمی ویڈیوز اور ہیلپ بھی موجود ہیں۔ آپ ہمارے واٹس ایپ گروپ کو جوائن کر کے براہ راست مدد حاصل کر سکتے ہیں۔ ویب سائٹ اور چینل پر وزٹ کریں اور اپنی تعلیمی کامیابی کی طرف قدم بڑھائیں!"