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EXAM PRACTICE

All questions came from the
June 2013 – January 2012 C2
Higher Tier Chemistry papers.

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Name _____ Date _____ Class _____

CHAPTER 6 REVIEW

Chemical Bonding

SECTION 4

SHORT ANSWER Answer the following questions in the space provided.

- _____ In metals, the valence electrons are considered to be
 - attached to particular positive ions.
 - shared by all surrounding atoms.
 - immobile.
 - involved in covalent bonds.
- _____ The fact that metals are malleable and ionic crystals are brittle is best explained in terms of their
 - chemical bonds.
 - London forces.
 - enthalpies of vaporization.
 - polarity.
- _____ As light strikes the surface of a metal, the electrons in the electron sea
 - allow the light to pass through.
 - become attached to particular positive ions.
 - fall to lower energy levels.
 - absorb and re-emit the light.
- _____ Mobile electrons in the metallic bond are responsible for
 - lustre.
 - thermal conductivity.
 - electrical conductivity.
 - All of the above.
- _____ In general, the strength of the metallic bond _____ moving from left to right on any row of the periodic table.
 - increases
 - decreases
 - remains the same
 - varies
- _____ When a metal is drawn into a wire, the metallic bonds
 - break easily.
 - break with difficulty.
 - do not break.
 - become ionic bonds.
- Use the concept of electron configurations to explain why the number of valence electrons in metals tends to be less than the number in most nonmetals.

Name _____ Date _____

Chapter 8 Study Guide

Covalent Bonding

- What is a covalent bond?
- What are the characteristics of molecular compounds (covalently bonded compounds)

Characteristics of Ionic and Covalent Compounds		
Characteristics	Ionic compound	Covalent compound
Representative element	Formula unit	
Bond formation	Transfer of one or more electrons between atoms	
Type of elements	Metallic and nonmetallic	
Physical state	Solid	
Melting point	High (usually above 300 deg. Celcius)	
Solubility in water	Usually high	
Electrical conductivity of aqueous solution	Good conductor	

- Know how to write the Lewis electron dot structure for a molecular compound given its molecular formula.
- The trick part is figuring out how many bonds to draw. It's easy if you follow these steps.

1. Count the number of _____
2. Subtract that number from _____
3. Divide your answer by _____
4. That number equals _____
5. Draw the structure with the correct number of bonds and don't forget to make sure every octet is full.

TOPIC 1
KEY CONCEPTS - TYPES OF SUBSTANCE

COVALENT BONDING

REVISION SUMMARY

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Name _____ Date _____

LIGHT AND OBJECTS

Did you know that light interacts with the world in three different ways? The way light passes through objects can be transparent, translucent, or opaque.

Translucent means that light can sort of pass through. The light is somewhat clear but hazy when it hits the object. **Semi-transparent** is another word for **translucent**.

Transparent means that light can pass through an object uninterrupted, as if the object is not even there.

Opaque means that when the light hits an object, it will not pass through it. Another word for **opaque** is **obscured**.

Use a flashlight and try to shine a light through the objects listed below. Circle if the light is transparent, translucent, or opaque. Describe what happens when you try to shine the light through the object.

1) **Cardboard** : Transparent / Translucent / Opaque

Describe: _____

2) **Plastic Wrap** : Transparent / Translucent / Opaque

Describe: _____

3) **Tissue Paper** : Transparent / Translucent / Opaque

Describe: _____

4) **Drinking Glass** : Transparent / Translucent / Opaque

Describe: _____

5) **Your Hand** : Transparent / Translucent / Opaque

Describe: _____

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Chapter 8 covalent bonding chapter test an answer key. Bonding test answer key. What do they say about covalent bonds at this school.

JEE Main Chapter Wise Weightage 2022: With an increase in JEE Main competition each passing year, it becomes imperative for candidates to find effective ways of preparation to increase their chance of clearing the examination. A thorough understanding of JEE Main Chapter-wise Weightage as per the analysis of previous year's papers will help the candidate's in understanding the importance to be given to topics. JEE Main 2022 Syllabus includes NCERT topics of Physics, Chemistry and Mathematics from Class 11th and Class 12th. Each section in JEE Main Question Paper, has an equal weightage of 33.33%. Candidates should practice JEE Main Question Papers to understand the type of questions and topics from which questions are asked often. With JEE Main Chapter Wise Weightage, candidates will be able to prepare well for the exam by giving more time to the topics with high weightage. In this article, JEE Main Chapter-wise Weightage as well as the important topics and weightage based on the previous year's analysis is given to help candidates with their preparation for JEE Main 2022. Also Check: JEE Main 2022 Chemistry Weightage Chapters Numbers of Questions Marks Transition Elements and Coordinate Geometry 3 12 Periodic Table and Representative Elements 3 12 Thermodynamics and Gaseous State 2 8 Atomic Structure 2 8 Chemical Bonding 2 8 Chemical and Ionic Equilibrium 2 8 Solid-State and Surface Chemistry 2 8 Nuclear Chemistry and Environment 2 8 Mole Concept 1 4 Redox Reaction 1 4 Electrochemistry 1 4 Chemical Kinetics 1 4 Solution and Colligative Properties 1 4 General Organic Chemistry 1 4 Stereochemistry 1 4 Hydrocarbon 1 4 Alkyl Halides 1 4 Carboxylic Acid and its derivatives 1 4 Carbohydrates, Amino Acids, and Polymers 1 4 Aromatic Compounds 1 4 Total 30 120 In JEE Main Question Paper, Chemistry is considered to be the most scoring section as per experts and test-takers with around 4 tough questions, 11 questions of medium difficulty level and 10 easy questions. JEE Main Chemistry Syllabus is broadly divided into Physical Chemistry, Organic and Inorganic Chemistry. Candidates should ideally attempt to solve the paper in 40-45 minutes. The important topics in Physical Chemistry include Solid State, Solutions, Chemical Kinetics, Atomic Structure, and Chemical Equilibrium. Other chapters which are difficult and require in-depth knowledge are Ionic Equilibrium and Thermodynamics. With around 33.33% of questions in JEE Main Chemistry Paper from Organic Chemistry, candidates should focus on the important concepts as the section might appear to be difficult. Chapters with high weightage from this unit include General Organic Chemistry. The concepts from these topics are also helpful in the understanding of other important topics from this section. Inorganic Chemistry consists of questions that have a weightage of around 50% from the Chemistry Syllabus. As per the previous year's analysis, questions are mainly asked from exceptions and reactions so more emphasis should be placed on these topics. Chapters Important Concepts Some basic concepts of Chemistry Reactions in Solutions Stoichiometry, Stoichiometric Calculations, and Limiting Reagents Empirical Formula and Molecular Formula Mole Concept and Mole Mass States of Matter Graham's Law of Diffusion Ideal Gas Equation The Gas Laws Intermolecular Forces Dalton's Law of Partial Pressure Chemical Thermodynamics Adiabatic Reversible and Irreversible Expansion Conservation of Energy Path, State, Function, and Type of Process Isothermal Reversible and Isothermal Irreversible Classification of Elements and Periodic Table Classification of Element : s block Long Form of Modern Periodic Table Atomic Radius of Elements Ionisation Enthalpy or Ionisation Potential Chemical Bonding and Molecular Structure Lewis Structure Limitation of Octet Rule Fajan's Rule and Covalent Character in Covalent Bond Principles Related to Principal Chemistry Preliminary Test with Dilute Sulphuric Acid Analysis of Cations Chemistry in Everyday Life Analgesics, Antibiotics and Preservatives Organic Compounds Containing Oxygen Grignard Reagent Acylation and Oxidation of Alcohol Preparation of Aldehydes Some Basic Principles of Organic Chemistry Functional Group IUPAC Nomenclature Carbanions Carbocations Alkyl Free Radicals Co-ordination Compounds Additional Compounds Oxidation and Coordination Number Ligands and its types Atomic Structure Heisenberg's Principle of Uncertainty Debroglie Wavelength Photoelectric effect, Line Spectrum of Hydrogen Radius, Velocity and energy of nth Bohr orbital General Principles and Process of Isolation of Elements Vapour Phase Refining Electrolytic Refining Froth Floatation Process, Leaching Electrolytic Refining D and f block elements Atomic Size and Radii Ionisation Energy Oxidation State Screening Effect and Lanthanoid Contraction Also Check: JEE Main Chemistry Question Papers JEE Main Chemistry Preparation JEE Main 2022 Physics Weightage Topics Number of Questions Marks Modern Physics 5 20 Heat and Thermodynamics 3 12 Optics 3 12 Current Electricity 3 12 Electrostatics 3 12 Magnetism 2 8 Unit, Dimension and Vector 1 4 Kinematics 1 4 Laws of Motion 1 4 Work, Energy and Power 1 4 Center of Mass, Impulse and Momentum 1 4 Rotation 1 4 Gravitation 1 4 SHM 1 4 Solids and Fluids 1 4 Waves 1 4 Electromagnetic Induction 1 4 Total 30 120 In JEE Main Question Paper, the Physics section consists of Class XI and Class XII syllabus in the ratio 40: 60. Candidates can expect around 2 tough questions, 7 medium, and 16 easy questions from this section. In JEE Main Physics Syllabus, topics like Mechanics Optics and Modern Physics have a weightage of around 30-35%, thus making them the most important chapters that candidates should focus on. Although based on the analysis of the question paper, candidates can assume the Physics section to be easy but the difficulty level of the paper is highly subjective. NCERT Books for Class 11th and Class 12th are enough for understanding the basics of JEE Main Physics, candidates can refer to books like Concepts of Physics Vol I and II by H.C. Verma, and Problems in General Physics by I.E. Irodov to practice more questions. Chapters Important Concepts Physics and Measurement Physical Quantity Frequency, Angular Frequency, Angular Velocity, Velocity Gradient Dimension, System and Practical Units Rotational Motion Torque Equations of Linear Motion and Rotational Motion Center of Mass Moment of Inertia Parallel Axis Theorem and Perpendicular Axis Theorem Work, Energy, and Power Potential Energy Kinetic Energy Work done by a variable force Nature of work done Potential Energy Curve Properties of Solids and Liquids Heat Stoke's Law and Terminal Velocity Thermal Stress and Thermal Strain Surface Energy Electromagnetic Induction and Alternating Current Faraday's Law of Induction Magnetic Flux Motion Electromotive Force AC Voltage applied to conductor Kinetic Theory of Gases Gas Laws States of Matter Ideal Gas Equation Kinetic Energy of Ideal Gas Also Check: JEE Main Physics Question Papers JEE Main Physics Preparation JEE Main 2022 Mathematics Weightage Chapters Number of Questions Marks Coordinate Geometry 5 20 Limits, Continuity and Differentiability 3 12 Integral Calculus 3 12 Complex Numbers and Quadratic Equation 2 8 Matrices and Determinants 2 8 Statistics and Probability 2 8 Three Dimensional Geometry 2 8 Vector Algebra 2 8 Sets, Relation and Function 1 4 Permutation and Combination 1 4 Binomial Theorem and its Applications 1 4 Sequences and Series 1 4 Trigonometry 1 4 Mathematical Reasoning 1 4 Differential Equation 1 4 Statics and Dynamics 1 4 Differential Calculus 1 4 Total 30 120 In JEE Main Mathematics Syllabus is the same for B.E/B.Tech and B.Arch as well as B.Planning papers. With 25% difficult questions, 25% easy questions and around 50% questions of moderate difficulty level, it becomes important for candidates to understand the topic with high weightage. The most important topics from Mathematics Syllabus include: Coordinate Geometry, Calculus, and Algebra with around 17% weightage. With around 40-50% syllabus from NCERT Class 12th, candidates can start the preparation of fundamentals from NCERT textbooks. Other books that can be referred to for JEE Main Mathematics Preparation include Maths for Class 11th and 12th by R.D. Sharma, Plane Trigonometry by S. L. Loney, Geometry by Dr Gorakh Prasad for topic-specific preparation. Topics Important Concepts Trigonometry Trigonometric Ratio for Compound Angles Trigonometric Identities, Measurement of Angle Trigonometric Ratio of Compound Angles Statistics and Probability Dispersion (Range, Mean Deviation) Dispersion (Variance and Standard Deviation) Mean, Median and Mode Vector Algebra Types of Vectors Direction Cosines and Direction Ratio Section Formula Multiplication of a Vector by Scalar Component of Vector and Vector Joining Two points Three Dimensional Geometry Shortest Distance between two lines Angle between two lines Equations for a Line in Space Introduction to 3D Coordinate System Sets, Relations, and Functions Union of Sets, Properties of Union Subsets, Proper and Improper Subsets, Intervals Domain, Range of Relation Cardinal Number of some sets Complex Numbers and Quadratic Equations Locus and Powers of Locus Complex Numbers and Euler form of Complex Number Conjugate of Complex numbers and their properties Modulus of Complex Numbers and their properties Matrices and Determinants Matrices, Order of Matrices, Row and Column Matrix Multiplication of Two Matrices Transpose of Matrix Properties of Matrix Multiplication Transpose Conjugate of a Matrix and properties Differential Equation Formation of Differential Equation and Solutions Bernoulli's Equation Linear Differential Equation Homogeneous Differential Equation Permutation and Combination Permutation as an Arrangement Application of Permutation Geometrical Permutations Different Cases of Geometrical Arrangements Integral Calculus Integration as Reverse Process of Differentiation Integration by Parts Fundamental Formulae of Indefinite Integration Application of Special Integration Formula Limits, Continuity and Differentiability Algebra of Limits Trigonometric Units Limit of Algebraic Function Limit of Indeterminate Form and Algebraic Limit Also Check: JEE Main Mathematics Question Papers JEE Main Mathematics Preparation Previous Year JEE Main Paper Analysis, the section below covers the chapter-wise weightage of Physics, Chemistry, and Mathematics for 2021 and 2020. Candidates can look at this comparison to understand the weightage of important chapters JEE Main Chapter wise Weightage for Physics Chapter Name Number of Questions (2021) Number of Questions (2020) Modern Physics 16 4 Optics 11 2 Electromagnetic Induction 5 1 Current Electricity 7 3 Heat and Thermodynamics 14 3 Waves 6 1 Simple Harmonic Motion 12 1 Gravitation 12 1 Rotational Dynamics 6 1 Circular Motion 2 1 Center of Mass and Momentum 4 1 Work, Energy and Power 4 1 Kinematics 6 1 Errors and Dimensions 2 1 JEE Main Chapter wise Weightage for Chemistry Chapter Name Number of Questions (2021) Number of Questions (2020) Mole 7 1 Gaseous State 3 1 Atomic Structure 5 2 Chemical Equilibrium 3 2 Ionic Equilibrium 4 2 Solid State 3 1 Solution 6 1 Chemical Kinetic 7 1 Thermodynamics 6 1 Surface Chemistry 5 1 Periodic Table 6 3 Chem Bonding 14 2 Environmental Chemistry 2 2 JEE Main Chapter wise Weightage for Mathematics Chapter Name Number of Questions (2021) Number of Questions (2020) Quadratic Equations 6 1 Coordinate Geometry 5 Binomial Theorem 6 1 Sequence and Series 8 1 Complex Numbers 6 1 Trigonometric Identities 6 2 Inverse Trigonometric Functions 4 1 Permutation and Combination 8 1 Sets, Relations and Functions 2 1 Limits, Continuity and Differentiability 7 3 Integration 10 3 Matrices and Determinants 14 2 Statistics 2 1 3D Geometry 18 2 Quick Links: *The article might have information for the previous academic years, which will be updated soon subject to the notification issued by the University/College.

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