

WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION
SYLLABUS FOR CLASSES XI AND XII
SUBJECT : CHEMISTRY (CHEM)

CLASS - XI

SEMESTER – I

SUBJECT : CHEMISTRY (CHEM)

FULL MARKS : 35

CONTACT HOURS : 70 Hours

COURSE CODE : THEORY

Sub-topics

UNIT No.	TOPICS	CONTACT HOURS	MARKS
Unit - 1	Some Basic Concepts of Chemistry: Laws of chemical combination. Concept of elements, atoms and molecules. Atomic and molecular masses. Mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. Different concentration terms of solutions and related calculations.	07	03
Unit - 2	Structure of Atom: Bohr's model and its limitations, concept of shell and sub-shells, the dual nature of matter and light, de Broglie's relationship. Heisenberg uncertainty principle, Schrödinger wave equation (elementary idea only). Concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals: Aufbau principle, Pauli exclusion principle and Hund's rule, exchange energy, electronic configuration of atom, stability of half-filled, completely filled orbitals.	12	06
Unit - 3	Classification of Elements and Periodicity in Properties: Modern periodic law and the present form of the periodic table, periodic trends in properties of elements – atomic radii, ionic radii, van der Waals' radii, ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.	07	04
Unit - 4	Chemical Bonding and Molecular Structure: Valence electrons, ionic bond, bond parameters, covalent bond, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridisation, involving s, p and d orbitals and shapes of some simple molecules, intermolecular interactions, Hydrogen bonding. Molecular orbital theory of homonuclear diatomic molecules (H_2 , He_2 , O_2 , N_2 , F_2 – qualitative idea only)	13	06

Wbchse Syllabus Of Xii Of 2015 16

Christian Drosten



Wbchse Syllabus Of Xii Of 2015 16:

Wbchse Syllabus Of Xii Of 2015 16: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Wbchse Syllabus Of Xii Of 2015 16

1. Understanding the eBook Wbchse Syllabus Of Xii Of 2015 16
 - The Rise of Digital Reading Wbchse Syllabus Of Xii Of 2015 16
 - Advantages of eBooks Over Traditional Books
2. Identifying Wbchse Syllabus Of Xii Of 2015 16
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wbchse Syllabus Of Xii Of 2015 16
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wbchse Syllabus Of Xii Of 2015 16
 - Personalized Recommendations
 - Wbchse Syllabus Of Xii Of 2015 16 User Reviews and Ratings
 - Wbchse Syllabus Of Xii Of 2015 16 and Bestseller Lists
5. Accessing Wbchse Syllabus Of Xii Of 2015 16 Free and Paid eBooks
 - Wbchse Syllabus Of Xii Of 2015 16 Public Domain eBooks
 - Wbchse Syllabus Of Xii Of 2015 16 eBook Subscription Services
 - Wbchse Syllabus Of Xii Of 2015 16 Budget-Friendly Options
6. Navigating Wbchse Syllabus Of Xii Of 2015 16 eBook Formats
 - ePub, PDF, MOBI, and More
 - Wbchse Syllabus Of Xii Of 2015 16 Compatibility with Devices
 - Wbchse Syllabus Of Xii Of 2015 16 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wbchse Syllabus Of Xii Of 2015 16
 - Highlighting and Note-Taking Wbchse Syllabus Of Xii Of 2015 16
 - Interactive Elements Wbchse Syllabus Of Xii Of 2015 16
8. Staying Engaged with Wbchse Syllabus Of Xii Of 2015 16

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Wbchse Syllabus Of Xii Of 2015 16
- 9. Balancing eBooks and Physical Books Wbchse Syllabus Of Xii Of 2015 16
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wbchse Syllabus Of Xii Of 2015 16
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wbchse Syllabus Of Xii Of 2015 16
 - Setting Reading Goals Wbchse Syllabus Of Xii Of 2015 16
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wbchse Syllabus Of Xii Of 2015 16
 - Fact-Checking eBook Content of Wbchse Syllabus Of Xii Of 2015 16
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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classification of angiosperms based on the types of cotyledon present angiosperms are divided into two classes they are
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they classified all the seed plants into 3 groups or classes i e dicotyledons 165 families gymnosperms 3 families and
monocotyledons 34 families 4 they included disputed orders among ordines anomali which they could not place satisfactorily

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division angiosperms bear flowers as reproductive organs seeds develop inside fruit plant embryos in seeds have structures
called cotyledons seed leaves further classification is based on single cotyledons monocotyledonous plants or two cotyledons
dicotyledonous plants

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the monocots have embryos consisting of only one cotyledon leaves have parallel venation and the roots are of adventitious
type

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interpretation of the probable origins of the angiosperms and their most primitive characteristics and some elucidation of
realignments that deviate considerably from other recent classifications many botanists have complained about the plethora
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angiosperms are classified in a single phylum the anthophyta modern angiosperms appear to be a monophyletic group which means that they originated from a single ancestor flowering plants are divided into two major groups according to the structure of the cotyledons and pollen grains among others

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the angiosperms or in new terminology the magnoliophytes are the flowering plants which include perhaps as many as 400 000 species from the science of grapevines second edition 2015 related terms cladistics genus pollinator gymnosperm anthesis arabidopsis evolution tissues

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most modern angiosperms are classified as either monocots or eudicots based on the structure of their leaves and embryos basal angiosperms such as water lilies are considered more primitive because they share morphological traits with both monocots and eudicots

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mar 24 2016 an update of the angiosperm phylogeny group apg classification of the orders and families of angiosperms is presented several new orders are recognized boraginales dilleniales icacinales metteniusiales and vahliales this brings the total number of orders and families recognized in the apg system to 64 and 416 respectively

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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianaes and ceratophyllanaes that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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4 system apg angiosperm phylogeny group revised in 2016 86 this system updates the traditional taxonomic system based on morphology with modern genetic data and succeeds apg iii 87 the constant

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abstract the synopsis of my classification of the angiospermae that was published in aliso thorne 1968 has been much modified in recent years increased knowledge about many of the families has resulted in a realignment of some of them and reorganization or deletion of some of the higher categories

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