

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

West Bengal Board Class Xii Syllabus Education

Priyanka Basu



West Bengal Board Class Xii Syllabus Education:

Society, Pedagogy, Politics: A Multidimensional Approach to COVID-19 Gupinath Bhandari, 2022-03-03 Administration of Education Boards in India Om Parkash Sharma, 1991 *Critical Sites of Inclusion in India's Higher Education* Papia Sengupta, 2022-03-01 This book acquaints the reader to the often invisible ized practices and policies under the rhetoric of inclusion through theoretical and empirical analysis It emphasizes on the complexities of education policies in a multicultural state by identifying the challenges to the idea of inclusion illuminated through judicial interventions policy frameworks and everyday experiences of individuals Higher education is imperative to empowerment in socially stratified societies marred with deep inequalities like India and many other multicultural countries Disputes over inclusion remains a critical feature in Indian higher education sector as it is viewed as facilitating access to economic opportunities and providing vertical mobility for individuals belonging to marginalized communities Higher education empowers and expands individual horizons of thought and ideas of freedom dignity equality enabling individuals to participate actively in the political sociological discourses in democratic polity Therefore policy makers political theorists and educationists have been examining the question of inclusion and education as public good Contemporary India has witnessed an unprecedented attack on academic freedom free exchange of ideas and expressions challenging the very idea of inclusion and inclusiveness *Europe And The World 1763-1945 (W.B. Board)* S. N. Sen, 2000 This Book Is Based On The Recent Historical Works And Is Intended Primarily For Higher Secondary Students Of West Bengal Council Of Higher Secondary Education The Book Provides An Outline On The Most Crucial Period Of The History Of Europe And The World Since 1763 Meandering Its Course Through The French Revolution Industrial Revolution Rising Tide Of Nationalism In Europe To The Outbreak Of The First World War It Also Highlights The Momentous Developments In America Russia China Japan And South East Asia And The Emerging Forces Of Fascism And Nazism In Europe The Outbreak Of The Second World War The Ramifications Of The War And Its Impact And The Achievements Of The United Nations Have Been Brought Up To Date On The Basis Of Recent Researches Apart From Model Questions Questions According To New Syllabus Of West Bengal Council Of Higher Secondary Education For 1995 1999 Have Been Appended To Familiarise The Students With The Nature Of Problems To Be Faced By Them In The Examination Chronology Of Important Events Has Also Been Given For The Benefit Of The Students **All-India Directory of Educational and Vocational Training Institutes for the Handicapped** Anjana Chattopadhyay, 1986 Listings of institutes for the blind deaf and mute orthopedically handicapped and mental retarded manufacturers libraries and international organizations Arranged by kinds of services Entries give identifying and descriptive information Appendix of institutes for which information was incomplete **Social Protection Programmes in India** Pinaki Das, 2020-01-01 The present monograph is an exclusive study of social protection programmes that form the social protection floor in rural India The background objectives targeted group s provision of benefits fund allocation coverage and impact of twenty five

important social protection programmes were analysed across states of India with special reference to the less development region of West Bengal which was adversely affected by extreme Maoist movement Based on the original research and extensive data the present monograph would also make a humble attempt aimed at collecting basic information of households on different aspects of social protection schemes and poverty situation to analyse the entitlements of the households relating to social protection benefits and to examine the impact of social protection benefits on food insecurity monetary poverty multidimensional poverty and deprivations of the households in the less developed region **Economic Review** West Bengal (India). Finance Department,2006 Publication ,1963 INDIA Handbook 2018 for Competitive Exams - Schemes, Yojanas, Policies, Bill & Acts, Amendments, Judgements, Summits, Organisations, Tribunals, Committees Disha Experts,2017-09-27 Most of the Competitive exams today test an aspirant s general awareness of India and its influencing factors Most of the questions asked in these exams revolve around the new initiatives various schemes policies etc taken by the government during the recent times The questions asks about the various features objectives stakeholders beneficiaries budgets targets etc involved in these initiatives Thus General Knowledge Awareness about the Indian social economic political aspects is essential for success in any Competitive Recruitment exams INDIA HANDBOOK 2018 FOR COMPETITIVE EXAMS by Disha is a comprehensive book with detailed theoretical content which covers an exhaustive listing of government Schemes Yojanas Policies Plans Important Bills Acts Constitution of India the various amendments various Courts Judgements Summits Conferences Agreements Accords Organizations Alliances Tribunals Regulators Important Committees their recommendations Important Projects Missions and many more INDIA HANDBOOK FOR COMPETITIVE EXAMS covers all the latest trends in General Knowledge which a candidate aspiring for any competitive exams like IAS State PSCs SSC Bank Clerk and PO Railways State Services Examinations and various PSUs such as NTPC NHPC BPCL BSNL DMRC HAL IOCL SAIL NPCL DRDO etc needs to be aware of The book has been developed in accordance with the current pattern and trends in various competitive examinations The book has been written in a lucid style for easy comprehension of the readers Figures Graphics and Tables have also been added wherever required Hope the book will prove to be highly beneficial for you **The Poet's Song** Priyanka Basu,2023-08-27 This book explores the folk performance genre of Kobigaan a dialogic song theatre form in which performers verse duel in contemporary West Bengal in India and Bangladesh The book shows how the genre thought to be a nearly extinct form is still prevalent in the region The author shows how like many other folk practices in South and South East Asia the content and format of this genre has undergone vital changes thus raising questions of authenticity patronage and cultural politics She captures live performances of Kobigaan through ethnographies spread across borders from village rituals to urban festivals and from Bengali cinema to television and new media While understanding Kobigaan from the practitioners points of view this book also explores the crucial issues of gender marginalisation and representation that are true of any performance genre Drawing on case studies

it underlines the issues of artistic agency empowerment cultural labour and heritage rituals authenticity creative industries media gender and identity politics Part of the South Asian History and Culture series this book is a major intervention in South Asian folklore and performance studies It also expands into the larger disciplines of literature social and cultural movements in South Asia ethnomusicology and the politics of performance **Towards the New Pattern of Education in India** P. D. Shukla,1987 A Handbook of West Bengal Sanghamitra Saha,1998 *The Education Quarterly* India. Ministry of Education,1987 *Indian Educational Review* ,1985 **Routledge Library Editions: Education Mini-Set H History of Education 24 vol set** Various,2021-07-14 Mini set H History of Education re issues 24 volumes which span a century of publishing 1900 1995 The volumes cover Education in Ancient Rome Irish education in the 19th century schools in Victorian Britain changing patterns in higher education secondary education in post war Britain education and the British colonial experience and the history of educational theory and reform **All India Educational Directory** Dharma Vira Aggarwala,Gurbachan Singh,1972 **Educart ISC 10 Years Solved Papers Class 12 for 2025 Science Stream - Physics, Chemistry, Maths, Biology, English Language & Literature, Computer Application, Physical Education and Hindi (Strictly Based on 2024-25 CISCE Syllabus)** Educart,2024-09-17 What You Get 50% Competency based Q s Educart ISC 10 Years Solved Papers Class 12 for 2025 Science Stream Physics Chemistry Maths Biology English Language Literature Computer Application Physical Education and Hindi Strictly Based on 2024 25 CISCE SyllabusIncludes detailed explanations for objective based questionsIncludes 10 years of subject wise latest pattern solved ISC papers Caution points and related theory for concept clarity Why choose this book New sample papers help prepare as per the revised pattern on an increased percentage of analytical questions Education World ,2006 **New English Pal, Class 10 P.** Sarkar,2023-05-16 New English Pal A Complete Guide Book for Smart Learning is a series of books for classes 5 to 10 based on the WBBSE syllabus one book for each class that includes Textual Questions with Tips for answers Grammar Questions for Practice and Writing Skills with model answers The book covers MCQ VSAQ SAQ and ETQs for the Summative Evaluation as well as Questions for Project Works Sample Charts etc From Text to Grammar and Writing Skills all are entirely based on the syllabus of the West Bengal Board of Secondary Education Thanking with Authors *New English Pal, Class 9 P.* Sarkar,2023-05-16 New English Pal A Complete Guide Book for Smart Learning is a series book for class 5 to 10 based on WBBSE syllabus one book for each class that includes Textual Questions of MCQ VSAQ SAQ for Summative Evaluation along with Project Works Sample Charts and Questions for Formative Evaluation as well as Grammar and Writing skill Sections according to syllabus for practice and better understanding

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How would scientists predict the pterosaur's probable wingspan from these pieces? Data from similar pterosaurs found throughout the world were available from ... Early pterosaur reconstructions - Archosaur Musings Jul 6, 2009 — ... fossil (though the ones in the background look far more ... Mesozoic Vertebrates The Munich palaeo lab; Mike Taylor's site Mike's research ... Schematic skeletal reconstruction of the small Jurassic ... Pterosaurs are an extinct group of Mesozoic flying reptiles, whose fossil record extends from approximately 210 to 66 million years ago. They were integral ...