

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

Class 11 West Bengal Board Syllabus

**West Bengal (India). Department of
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Society, Pedagogy, Politics: A Multidimensional Approach to COVID-19 Gupinath Bhandari, 2022-03-03 Administration of Education Boards in India Om Parkash Sharma, 1991 **Oswaal CBSE Question Bank Class 11 Geography,**

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Information Systems for Intelligent Systems Chakchai So-In, Narendra D. Londhe, Nityesh Bhatt, Meelis Kitsing, 2023-03-01 This book includes selected papers presented at World Conference on Information Systems for Business Management ISBM 2022 held in Bangkok Thailand during September 2 3 2022 It covers up to date cutting edge research on data science information systems infrastructure and computational systems engineering systems business information systems and smart secure systems *Report on Public Instruction in West Bengal* West Bengal (India) Education Department, 1963

Report on Public Instruction in West Bengal West Bengal (India). Education Dept, 1963 **First Six Months of Left Front Ministry in West Bengal**, 1977 *Siksha o sahitya*, 1965 **Labour in West Bengal** West Bengal (India). Department of Labour, 1994 *Council Debates; Official Report* West Bengal (India). Legislature. Legislative Council, 1957 **West Bengal**, 1964 **IGMRC(2020)- An Indian Study on The Growth and Development of Indian Mutual Funds Industry With Reference to Equity Oriented Scheme**. Sayan Banerjee, The book paper aims at depicting the magnitude of growth that the Indian Mutual Funds Industry has witnessed in the past two decades with special reference to equity mutual funds schemes **Publication**, 1958 *Fifth World Congress on Disaster Management: Volume IV* S. Anand Babu, 2023-04-27 World Congress on Disaster Management WCDM brings researchers policy makers and

practitioners from around the world in the same platform to discuss various challenging issues of disaster risk management enhance understanding of risks and advance actions for reducing risks and building resilience to disasters The fifth WCDM deliberates on three critical issues that pose the most serious challenges as well as hold the best possible promise of building resilience to disasters These are Technology Finance and Capacity WCDM has emerged as the largest global conference on disaster management outside the UN system The fifth WCDM was attended by more than 2500 scientists professionals policy makers practitioners all around the world despite the prevalence of pandemic **The Education Quarterly** ,1987

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 Sikkim Herald ,1973 *The Hindu Index* ,2006

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Battery Replacement, 24/7 Auto Battery Change ... Mobile Car Battery Replacement: Emergency Car and Motorbike Battery Delivery and Replacement Service Sydney. Cheap prices for automotive vehicle batteries ... How many Ferrari 458 Italia were made? Oct 17, 2015 — There isn't any official release from Ferrari, but here's my guess. There was a recall for a trunk latch problem that affected 3082 cars in ... Ferrari 458 Italia - Battery Buy BATTERY parts for the Ferrari 458 Italia. Order any in-stock part online and get it delivered in 2 days. 458 starting issue & electrical warning fault - Ferrari V8 Mar 31, 2017 — I would replace the battery if it's still on the original regardless - at the very least it will eliminate that as the problem, but six ... Manual do carburador solex h30 pic by successlocation26 Dec 29, 2017 — Get manual do carburador solex h30 pic PDF file for free from our online library ... PDF file: manual do carburador solex h30 pic. Page: 1. First ... H30 | PDF | Motor de Combustão interna | Carburador O instrutor explica que existem diversos modelos de carburadores, que variam em funo da potncia e do tipo de aplicao na qual utilizado. "O carburador simples ... REGULAGEM BÁSICA DO CARBURADOR SOLEX H 30 ... Nov 18, 2014 — Sistema de marcha lenta suplementar: Alguns carburadores, como o H 30/31 PIC t, apresentam esse sistema que acrescenta aos demais componentes do ... Manual Do Carburador Solex | MercadoLivre Frete grátis no dia ☐ Compre Manual Do Carburador Solex parcelado sem juros ... Manual Carburador Solex Brosol 1980 - Modelo 20 Ivh Cod 791. R\$49,98. em. 12x. R\$... Manual carburador solex h30 34 blfa pdf manual carburador solex h30 34 blfa pdf · Kit Reparo Carburador Blfa H30/34 1.6 Cht Gasolina 1992/... · Carburador Gm Opala 4Cil.1980/ Alcool -Solex Duplo H ... Manual Carburador Brosol Blfa Volkswagen Frete grátis no dia ☐ Compre Manual Carburador Brosol Blfa Volkswagen parcelado sem juros! Saiba mais sobre nossas incríveis ofertas e promoções em milhões ... Tabela de Gicleurs - Carburadores Solex e Brosol Apr 17, 2020 — #FukaDica: Tabela de Gicleurs - Carburadores Solex e Brosol. xxxxx. Read it. Save ... Manual Car · Metal Tools · Kaizen · Drill · Soldering.