



# Modern International School

Dwarka, New Delhi

## YEARLY SYLLABUS SESSION (2019-20)

### CLASS – 11th

#### ENGLISH TERM #1

**Learning Objectives:** To enable the learners to acquire proficiency in communicative skills of English Language

**Text books :** Snapshots

#### Hornbill

MONTH	SKILL/CONCEPT	CONTENT
APRIL	Reading	Snap shots : The summer of the beautiful white horse
	Grammar	Tenses
	Writing	Notice Writing
MAY	Reading	Hornbill : the Portrait of a lady
	Listening	A photograph
	Grammar	Modal, Preposition
	writing	Advertisement Writing



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<b>JULY</b>	Reading Comprehension Grammar Writing	Snapshots :The Address Hornbill : We're not afraid to die ----, Labrnum Top Landscape of the Soul Sub-verb Agreement Note Making
<b>AUGUST</b>	Reading Comprehension Grammar writing	Hornbill: Discovery Tut – The saga continuous.... Silk Road Snapshots : Ranga's Marriage Prepositions Letter Writing
<b>SEPTEMBER</b>	Reading Comprehension Grammar writing	Snapshot : Albert Einstien at school Hornbill : Ailing planet –the green movement role Change the Naration Article Writing



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## ENGLISH TERM #2

MONTH	SKILL/CONCEPT	CONTENT
<b>OCTOBER</b>	Reading listening  Grammar Writing	Snapshots- Mother's day  Birth  Hornbill :Adventure  The voice of the rain  Change The Voice  Invitation Writing
<b>NOVEMBER</b>	Reading comprehension  Grammar Writing	Hornbill- The Browning version, Childhood  Snapshots- THE ghat Of The Only World  Error correction, Reordering of sentences  Speech, Debate writing
<b>HE Only World</b>	Reading	Hornbill-Father To Son

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	comprehension  Grammar  Writing	Snapshots- Birth  The Tale of Melon City  Editing and Omission  Report Writing
<b>JANUARY</b>		REVISION
<b>FEBRUARY</b>		REVISION
<b>MARCH</b>		FINAL EXAMINATION

### Suggestions to parents:

1. Children should be encouraged to watch news bulletin and read story books.
2. Children should be encouraged to converse in English.
3. Children should be encouraged for creative writing.

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## MATHEMATICS TERM #1

MONTH	TOPIC	CONTENT
APRIL	Ch:1 SETS	Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of the set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and intersection of sets. Difference of sets. Complement of a set, Properties of Complement sets.
MAY	Ch:2 Relation and functions	Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the reals with itself (upto $R \times R \times R$ ). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.
JULY	Ch:3 Trigonometric functions	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Signs of trigonometric functions and sketch of their graphs. Expressing $\sin(x+y)$ and $\cos(x+y)$ in terms of

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	<p>Chapter 4: principal of mathematical induction</p> <p>Chapter 9: sequence an series</p>	<p><math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> and <math>\cos y</math>. Deducing the identities.</p> <p>Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.</p> <p>Sequence and Series. Arithmetic Progression (A.P.), Arithmetic Mean (A.M.), Geometric Progression (G.P.), general term of a G.P., sum of <math>n</math> terms of a G.P. Arithmetic and geometric series, infinite G.P. and its sum, geometric mean (G.M.). Relation between A.M. and G.M. Sum to <math>n</math> terms of the special series.</p>
<p><b>August</b></p>	<p>Chapter 5 complex numbers and quadratic equations</p>	<p>Need for complex numbers, especially <math>i</math>, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system, Square-root of a Complex number</p> <p>Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation.</p>

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	Chapter 6 linear inequalities	on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables - graphially
<b>SEPTEMBER</b>	Chapter 7: permutation and combination	Fundamental principle of counting. Factorial $n$ . Permutations and combinations derivation of formulae and their connections, simple applications

## MATHEMATICS TERM #2

<b>MONTH</b>	<b>TOPIC</b>	<b>CONTENTS</b>
<b>OCTOBER</b>	Chapter 8 : Binomial theorem  Chapter 10 straight lines	History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, general and middle term in binomial expansion, simple applications  Brief recall of 2-D from earlier classes, shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axes, point-slope form, slope-intercept form, two-point form, intercepts form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.



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<p><b>NOVEMBER</b></p>	<p>Chapter 12 : Introduction to three-dimensional geometry</p> <p>Chapter 11: conic sections</p> <p>Chapter 13: limits and derivatives</p>	<p>Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.</p> <p>S</p> <p>Sections of a cone: Circles, ellipse, parabola, hyperbola, a point, a straight line and pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.</p> <p>Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit.</p> <p>. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions.</p> <p>Derivatives of polynomial and trigonometric functions.</p>
<p><b>DECEMBER</b></p>	<p>Chapter 15: statistics</p>	<p>Measure of dispersion; mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.</p>
<p><b>JANUARY</b></p>	<p>Chapter 16: probability</p>	<p>Random experiments: outcomes, sample spaces (set representation). Events: Occurrence of events, 'not', 'and' &amp; 'or' events, exhaustive events, mutually exclusive events. Axiomatic (set</p>



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		theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and', & 'or' events.
<b>FEBRUARY</b>		Revision of whole syllabus
<b>MARCH</b>		Final examination



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## PHYSICS TERM #1 BOOK 2

MONTH	TOPIC	CONTENT
APRIL	C-9. Mechanical properties of solids	Introduction, Elastic behaviour of solid, Stress and strain, Hooke's law, Stress- strain curve, Elastic moduli, Applications.
MAY	C-10.Mechanical properties of fluids	10.Introduction, Pressure, Streamline flow, Bernoulli's principle, Viscosity, Reynolds number, Surface tension.
JULY	C-10.Mechanical properties of fluids  EXPERIMENT:	10.Introduction, Pressure, Streamline flow, Bernoulli's principle, Viscosity, Reynolds number, Surface tension.  1) measure diameter with the help of vernier calliper
AUGUST	11. Thermal properties of matter  EXPERIMENT:	10.Introduction, Pressure, Streamline flow, Bernoulli's principle, Viscosity, Reynolds number, Surface tension.  11. Temperature and heat, Measurement of temperature ,Ideal gas equation, Thermal expansion, specific heat capacity,calorimeter, Newton's law of cooling.  2) To measure the diameter using screw guage
SEPTEMBER	C 12.Thermodynamics	12. Zeroth law, heat, internal energy and work, 1 <sup>st</sup> and 2 <sup>nd</sup> law of thermodynamics, state variables and

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	EXPERIMENT:	<p>equation of state, thermodynamic processes, heat engines, Carnot engine, Refrigerators</p> <p>3) To measure the radius with the help of speedometer</p>
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## PHYSICS TERM #2 BOOK 2

MONTH	TOPIC	CONTENT
<b>OCTOBER</b>	C-13. Kinetic theory EXPERIMENT:	13. Molecular nature, Law of equipartition of energy, specific heat Capacity, mean free path. 4) Plot L-T, L-T2 graph for simple pendulum
<b>NOVEMBER</b>	C-14. Oscillations EXPERIMENT:	14. Periodic and oscillatory motion, simple harmonic motion, velocity and acceleration, force law, energy in SHM, damped motion, forced oscillation and resonance. 5) To find force constant of a helical spring
<b>DECEMBER</b>	C-15. Waves EXPERIMENT:	15. Transverse and longitudinal wave, displacement relation, speed of a wave, superposition of waves, reflection of waves, beat, Doppler effect. 6) To find weight using law of parallelogram of forces
<b>JANUARY</b>	C-16. Ray optics	16. Reflection and refraction, total internal reflection, dispersion, lens formula, combination of lens and mirror, magnification



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	EXPERIMENT:	7) To find speed of sound by resonance tube
<b>FEBRUARY</b>	REVISION	
<b>MARCH</b>	FINAL EXAM	

## PHYSICS TERM #1 BOOK 1

<b>MONTH</b>	<b>TOPIC</b>	<b>CONTENT</b>
<b>APRIL</b>	C-1: Physical world	Physics Vs Technology & society, Fundamental forces in nature, Nature of physical laws
<b>MAY</b>	C-2: Units and Measurement	Measurement-length/mass/time, Accuracy/Precision, Significant figures, Dimensional Analysis
<b>JULY</b>	C-3: Motion in a straight line	Terminologies, Velocity, acceleration, kinematic equations, relative velocity
<b>AUGUST</b>	C-4: Motion in a plane	Scalars/Vectors, Operation of vectors, motion with constant acceleration, projectile, Uniform circular motion
<b>SEPTEMBER</b>	C-5: Laws of motion	Newton's laws of motion, conservation of momentum, equilibrium of a particle, circular motion

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## PHYSICS TERM #2 BOOK 1

MONTH	TOPIC	CONTENT
OCTOBER	C-6: work energy and power	Terminologies, kinetic energy, potential energy, conservation of mechanical energy, P.E of a spring
NOVEMBER	C-7: System of particles and rotational motion	Centre of mass, motion of centre of mass, angular velocity, rigid body
DECEMBER	C-7: System of particles and rotational motion	Equilibrium of rigidity, moment of inertia and its theorems, kinetics of rotational motion, rolling motion
JANUARY	C-8: Gravitation	Kepler's laws, universal law of gravitation, gravitational constant, escape speed, orbiting speed, orbiting satellites
FEBRUARY	REVISION	
MARCH	FINAL EXAM	



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## POLITICAL SCIENCE TERM #1

MONTH	TOPIC	CONTENT
APRIL	<u>Book 1: Indian Constitution at Work</u>	Chapter 1 and Chapter 10. Constitution: Why and How and Philosophy of the Constitution
MAY		Chapter 2. Rights in the Indian Constitution Chapter 3. Election and Representation
JULY		Chapter 4. Executive Chapter 5. Legislature Chapter 6. Judiciary
AUGUST		Chapter 7. Federalism Chapter 8. Local Governments Chapter 9. Constitution as a Living Document
SEPTEMBER	<u>Book 2 : Political Theory</u>	Chapter 1. Political Theory: An Introduction  Revision of Book 1 - Indian Constitution at Work - Chapter 1 to 10



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## POLITICAL SCIENCE TERM #2

MONTH	TOPIC	CONTENT
OCTOBER	<u>Book 2 : Political Theory</u>	Chapter 2. Freedom Chapter 3. Equality Chapter 4. Social Justice
NOVEMBER		Chapter 5. Rights Chapter 6. Citizenship
DECEMBER		Chapter 7. Nationalism, Chapter 8. Secularism, Chapter 9. Peace
JANUARY		Chapter 9. Peace Contd, Chapter 10. Development
FEBRUARY		Revision for Yearly Assessment
MARCH		FINAL EXAMINATION



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## ACCOUNTS TERM #1

MONTH	TOPIC	CONTENT
APRIL	Chapter-1: INTROUCTION TO ACCOUNTING Chapter-2: BASIC TERMS OF ACCOUNTING	DEFINATION OF ACCOUNTING, RELEVANT ASPECT OF ACCOUNTING, CHARACTERISTICS OF ACCOUNTING, ACCOUNTING AS A SOURCE OF INFORMATION, ACCVOUNTING PROCESS, IS ACCOUNTING A SCIENCE OR AN ART, BRACHES OF ACCOUNTING, BOOK-KEEPING, ACCOUNTING AND ACCOUNTANCY, ACCOUNTING INFORMATION, ROLE OF ACCOUNTING, BASIC TERMS IN ACCOUNTING
MAY	Chapter-3: PRINCIPAL OF ACCOUNTING STANDARDS Chapter-4: CASH AND ACCRUAL BASIS OF ACCOUNTING	ACCOUNTING PRINCIPLES, SYSTEM AND BASIS OF ACCOUNTING ACCONTING STANDARDS AND IFRS, DIFFERNCE BETWEEN CASH BASICS AND ACCURAL BASIS OF ACCOUNTING
JULY	Chapter-5: ACCOUNTING EQUATIONS Chapter-6: RULES OF DEBIT AND CREDIT Chapter-7 JOURNAL AND LEDGER	ACCOUNTING EQUATIONS, CLASSIFICATION OF ACCONTS, BOOKS OF ORIGINAL ENTRY, RECORDING IN JOURNAL, LEGDER
AUGUST	Chapter-8: CASH BOOK Chapter-9: OTHERS BOOKS Chapter-10: BANK RECONCILIATION STATEMENT Chapter-11: TRAIL BALANCE	CASH BOOK, OTHER SUBSIDIARY BOOKS, INTRODUCTION OF TRAIL BALANCE, CHARACTERSICTS OR FEATURES OF A TRAIL BALANCE, OBJECTIVES, NEEDS OR FUNCTIONS OF PREPARING A TRAIL BALANCE, STEPS TO PREPARE A TRIAL BALANCE, LIMITATIONS OF TRAIL BALANCE, METHODS OF PREPRATION OF TRAIL BALANCE, NEED

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		AND IMPORTANCE OF BANK RECONCILIATION STATEMENT, REASONS OF DIFFERENCE BETWEEN CASH BOOK AND PASS BOOK
<b>SEPTEMBER</b>	HALF YEARLY EXAMINATION	

## ACCOUNTS TERM #2

<b>MONTH</b>	<b>TOPIC</b>	<b>CONTENT</b>
<b>OCTOBER</b>	Chapter-12: DEPRECIATION Chapter-13: PROVISIONS AND RESERVES Chapter-14: BILLS OF EXCHANGE	INTRODUCTION TO DEPRECIATION, BOOKS OF ORIGINAL ENTRY, PROVISIONS AND RESERVES, BILLS OF EXCHANGE AND PROMISSORY NOTE, TERMS RELATED TO ACCOUNTING OF BILL OF EXCHANGE, CALCULATION OF DATE OF MATURITY IN CASE OF TIME BILLS, ACCOUNTING TREATMENT OF BILLS OF EXCHANGE AND PROMISSORY NOTE, DISHONOUR OF BILL, RENEWAL OF THE BILL, RETRINING OF THE BILL UNDER REBATE OF ACCOMODATION BILL.
<b>NOVEMBER</b>	Chapter-15: RECTIFICATION OF ERRORS Chapter-16: FINAL	INTRODUCTION OF ERRORS, CLASSIFICATION OF ERRORS, SEARCHING OF ERRORS, SUSPENSE ACCOUNT, OBJECTIVES AND IMPORTANCE OF FINANCIAL STATEMENTS, CLASSIFICATION OF CAPITAL AND REVENUE, FINAL ACCOUNTS, OPERATING PROFIT AND NET



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	ACCOUNTS WITHOUT ADJUSTMENT	PROFIT, BALANCE SHEET, GROUPING AND MARSHALLING OF ASSETS AND LIABILITIES.
<b>DECEMBER</b>	Chapter-17: FINAL ACCOUNTS WITH ADJUSTMENT	CLOSING STOCK, OUTSTANDING EXPENSES, PREPAID EXPENSES, ACCRUED INCOME, INCOME RECEIVED IN ADVANCE, DEPRECIATION, BAD DEBTS, PROVISION OF DOUBTFUL DEBTS, PROVISION FOR DISCOUNT ON DEBTORS, MANAGERS COMMISSION, INTEREST ON CAPITAL, ABNORMAL OR ACCIDENTAL LOSSES, GOODS TAKEN FOR PERSONAL USE, DISTRIBUTION AS FREE SAMPLES.
<b>JANUARY</b>	Chapter-18: SINGLE ENTRY SYSTEM Chapter-19: COMPUTERS IN ACCOUNTING	MEANING AND DEFINITION OF INCOMPLETE RECORDS, STATEMENT OF PROFIT AND LOSS UNDER SINGLE ENTRY SYSTEM, STATEMENTS OF AFFAIRS METHOD, MEANING OF COMPUTER, ELEMENTS OF COMPUTER SYSTEM, COMPARISON BETWEEN MANUAL AND COMPUTERISED ACCOUNTING, ACCOUNTING SOFTWARE.
<b>FEBRUARY</b>	REVISION	
<b>MARCH</b>	FINAL EXAMINATION	



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## ECONOMICS #1

MONTH	TOPIC	CONTENT
APRIL	<p><b>Chapter-1: INTRODUCTION TO MICRO ECONOMICS</b>  <b>Chapter-2: CONSUMERS EQUILIRIUM</b></p> <p>Chapter-1 concepts of economics and significance of statistics in economics</p>	<p>Meaning of microeconomics and macroeconomics, positive and normative economics. what is an economy? central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost. Meaning of utility, marginal utility, law of diminishing marginal utility, conditions equilibrium using marginal utility analysis. consumers equilibrium and approaches. meaning and scope of economic and importance of statistics.</p>
MAY	<p><b>Chapter-3: DEMAND AND ELASTICITY OF DEMAND</b></p> <p>Chapter-2 collection of data chapter-3 census and sample methods of collection of data</p>	<p>Demand, market demand, determinants of demand schedule, demand curve and its slope, elasticity of demand and factors effecting demand. sources of data- primary and secondary; sampling errors and census of india and national sample survey organisation.</p>
JULY	<p><b>Chapter-4: PRODUCTION FUNCTION</b></p> <p>Chapter-4 organisation of data chapter5-</p>	<p>Meaning of production function – short run and long run, total product, average product and marginal product. returns of factors. meaning and types of variables, frequency distribution. tabular presentation and diagrammatic presentation of data.</p>

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	presentation of data-textual and tabular presentaaion	
<b>AUGUST</b>	<b>Chapter-5:COST AND REVENUE</b> <b>Chapter-6:PROUCERS EQUILIRIUM</b> Chapter-6Diagrammatic presentation of data-bar diagrams and pie diagrams.	Short run costs-total cost,total fixed cost ,total variable cost,average cost ,average fixed cost ,average variable cost,marginal cost,total revenue and marginal revenue and producers equilibrium.tabular presentation of data,bar diagram,multiple bar diagram pie chart,ogive.
<b>SEPTEMBER</b>	HALF YEARLY EXAMINATION	



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## ECONOMICS #2

MONTH	TOPIC	CONTENT
OCTOBER	Chapter-7:SUPPLY Chapter-8:FORMS OF MARKET Chapter-9:MARKET EQUILIRIUM CHAPTER7-Frequency Diagrams;histogram,polygon and ogive	Supply, market supply ,determinants of supply ,supply curve and slope ,movements along and shift in shift in supply curve and elasticity of supply curve. Perfect competition –features ;determination of equilibrium and effects of shift in demand and supply. others marks forms –monopoly,monoplostic competition ,oligopoly-their meaning an features. Frequency diagram9histogram,polygon and ogive0,arithmetic line graphs and time series graphs.
NOVEMBER	Chapter-10:APPLICATION OF DEMAND AND SUPPLY Chapter-8-Arithmetic line-graphs or time series graphs Chapter-9-measures of central tendency-arithmetic mean	Simple applications of demand and supply price ceiling ,price floor. mean (simple and weighted).
DECEMBER	Chapter-10-Meaures of central tendency-median and mode Chapter-11- measures of dispersion	Median and mode.Range,quartile deviation ,mean deviation and standard deviation and coefficient of mean and median ,Lorenz curve, meaning ,construction and its application .



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<b>JANUARY</b>	Chapter-11-Correlation chapter-12 –index number	Meaning and properties ,scatter diagram ;meaning of correlation –karl pearson,spearman,s rank correlation.meaning ,types-paarches method,laapres method and fishers ideal index.
<b>FEBRUARY</b>	Revision	
<b>MARCH</b>	Final examination	





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## B.ST TERM #1

MONTH	TOPIC	CONTENT
APRIL	UNIT-1 EVOLUTION AND FUNDAMENTALS OF BUSINESS	Business: An Introduction Classification of Business activities
MAY	UNIT-1 EVOLUTION AND FUNDAMENTALS OF BUSINESS	History of Commerce in India Business Risk: Nature and causes
JULY	UNIT-2: Forms of Business Organisation	Forms of Business Organisation: Sole Proprietorship, Partnership Organisation, Joint Hindu Family Business, Cooperative Societies, Company Organisation, Formation of Company: Various Stages, Choice of Form of Business Organisation
AUGUST	UNIT-3: Private, Public and Global Enterprises  UNIT-4: Business Services	Private Sector and Public Sector Global Enterprises/ Multinational Companies, Joint Venture and Public- Private Partnership Business Services: Banking Services and Digital Payments Insurance: An Introduction, Life, Fire and Marine Insurance Postal and Telecom Services

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<b>SEPTEMBER</b>	Revision for Half Yearly Exams	
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## B.ST TERM #2

<b>MONTH</b>	<b>TOPIC</b>	<b>CONTENT</b>
<b>OCTOBER</b>	UNIT-5: Emerging Modes of Business	e- Business and Outsourcing of Services
<b>NOVEMBER</b>	UNIT-6: Social Responsibilities of Business and Business Ethics  UNIT-7: Sources of Business	Social Responsibilities of Business and Business Ethics  Sources of Business Finance



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	Finance	
<b>DECEMBER</b>	UNIT-8: Small Business  UNIT-9: Internal Trade	Small Business: An Introduction Entrepreneurship Development Internal Trade: Meaning and Types Wholesale Trade: Meaning and Services Retail Trade: Meaning and Types Goods and Services Tax: Concept and Key Features
<b>JANUARY</b>	UNIT-10: International Trade	International Trade Import Trade: Procedure and Documents Export Trade: Procedure and Documents World Trade Organisation: Meaning and Objectives
<b>FEBRUARY</b>	Revision for Final Exams	
<b>MARCH</b>	Final Exams	



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## PHYSICAL EDUCATION TERM #1

MONTH	SKILL/CONCEPT	CONTENT
<b>APRIL</b>	CH-1 Changing Trends and careers in physical education  CH-2 Olympic Movement	1- Meaning of physical education, Aims and objectives of physical education, Changing Trends in physical education, various physical education courses available in INDIA, Career options in physical education, Soft skills required for different careers. 2- Ancient Olympics, Olympic Ideals and values, International Olympic committee, National sports Awards, Organisational set up of CBSE sports.
<b>MAY</b>	CH-3 Physical Fitness ,Wellness and lifestyle	3- Meaning of physical Fitness, Components of physical fitness, Components of health related fitness, Components of wellness, Preventing health threats through lifestyle change, Components of positive lifestyle
<b>JULY</b>	CH-4 Physical Education and sports for differently Abled  CH-5 Yoga	4- Aims and objectives of Adaptive physical education, Promoting adaptive sports , Concept and need of integrated physical education, Role of Various Professionals for children with Special need. 5- Meaning of yoga, Elements of Yoga, Introduction to Asanas , Relaxation techniques.
<b>AUGUST</b>	Ch-6 Physical Activity and Leadership Training  CH-7 Test and	6- Introduction to physical Activity and Leadership ,Qualities and role of a leader, Behaviour change stages for physical Activity, Creating Leaders Through physical education, Meaning, Objectives and Types of Adventure Sports ,safety Measures during Adventure Sports. 7- Importance of test of measurement in sports ,Calculation of Body Mass Index (BMI), Somato or Body types, procedures of Anthropometric Measurements

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<b>SEPTEMBER</b>	CH-8 Fundamental of Anatomy and Physiology  CH-9 Kinesiology, Biomechanics and sports	8- Anatomy , Skeletal System, properties of muscles, Functions and structure of muscles, Human Respiratory system, Circulatory system, Oxygen Debt, 9- Importance of Kinesiology, Lever, Equilibrium , Force, Introduction to Buoyancy Force





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## Physical education term #2

MONTH	SKILL/CONCEPT	CONTENT
OCTOBER	CH-10 Psychology and sports	Definition of Psychology, Growth and Development, Adolescent problems and Management, Learning, Plateaj and causes of Plateaj, Emotion.
NOVEMBER	CH-11 Training in sports	Meaning and Concept of sports training, Principles of sports training, Warming up and Limbering Down Load, Adaptation and Recovery , Role of free play in Development of motor Components
DECEMBER	Ch-12 Doping	Meaning of Doping, Concept and Classification of Doping, Prohibited Substances, Side effects of Prohibited Substances, Doping Control Procedure.
JANUARY	Revision	
FEBRUARY	Revision	
MARCH	Final Examination	



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## HISTORY TERM# 1

MONTH	CONTENT
APRIL	Ch. 1 From the Beginning of Time Ch. 2 Writing and City Life
MAY	Ch. 2 Writing and City Life (Contd) Ch.3 An Empire Across Three Continents
JULY	Ch.3 An Empire Across Three Continents (Contd) Ch.4 The Central Islamic Lands
AUGUST	Ch.4 The Central Islamic Lands (Contd) Ch. 5: Nomadic Empires Ch. 6 : The Three Orders
SEPTEMBER	Ch. 6 : The Three Orders (Contd) Revision



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## HISTORY TERM #2

MONTH	CONTENT
OCTOBER	Ch. 7 : Changing Cultural Traditions  Ch. 8 : Confrontation of Cultures
NOVEMBER	Ch. 9 : The Industrial Revolution
DECEMBER	Ch. 10 : Displacing Indigenous Peoples
JANUARY	Ch. 11 Paths to Modernisation  Revision  Project Evaluation
FEBRUARY	Revision for Yearly Assessment
MARCH	Final Examination



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कक्षा - 11

अध्यापिका-मधुलतायादव

शिक्षणउद्देश्य

- 1- विद्यार्थियोंकीमानसिकवबौद्धिकशक्तिकाविकासकरना।
- 2- छात्रोंकशब्दकोशवृद्धिकरना।
- 3- छात्रोंकीसमवायशैलीकोविकसितकरना।

पाठ्यपुस्तके ---- आरोहभाग - 1 ,वितानभाग 1

विषय-हिंदी

अवधि	विषयवस्तु	परियोजनाकार्य	रचनात्मकार्य
अप्रैल	आरोहभाग१- गद्यभाग-नमककादारोगा काव्यभाग-कबीरदासव्याकरण - पत्रलेखननिबंधलेखन	भ्रष्टाचारऔरआधुनिकतासंबंधितलेख।	प्रेमचंदकीकहानियोंकोपढ़करकिसीएककहानीपरअपनेविचारप्रकटकीजिए।
मई	आरोहभाग१- गद्यभाग - मियानसीरुदीन काव्यभाग-मीराबाईव्याकरण -रिपोर्टलेखन	मीराबाईकीजीवनीऔरसमाचारपत्रोंमेंसेरिपोर्टएकत्रितकर किसीदोविषयपरअपनेशब्दोंमेंरिपोर्टबनाये।	संवाददाताबनकररिपोर्टकक्षाव्यक्तकीजिए।
जून	१) भ्रष्टाचारकोआपसमाजमेंसेकैसेदूरकरनाचाहतेहैलेखलिखे। २) कबीरदासकेबीसदोहेएकत्रितकरके उन्हेंसुंदरशैलीमेंलिखे।		

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	<p>3) समाचारपत्रोंमेंसेरिपोर्टलेखनसंग्रहित करकेउन्हेंफाइलमेंपेस्टकरे I</p> <p>4) अपनेव्यक्तित्वपरलेखलिखे I</p> <p>5) दस - दसशब्दोंकाएकहिंदीशब्दकोषबनाये</p> <p>6) जनसंचारकेतीसप्रश्नलिखें I</p>		
जुलाई	<p>आरोहभाग१-गद्यभाग - अप्पूकेसाथढाईसालवितान - लतामंगेशकर</p> <p>काव्यभाग -रामनरेशत्रिपाठी , पंतव्याकरण- जनसंचार</p>	समाचारपत्रकीउपयोगिता	किसीपशुयापक्षीकेसाथबितायासमयउसपरसं स्मरणलिखे I
अगस्त	<p>आरोहभाग१- गद्यभाग- विदाईसंभाषणवितान- पुनरावर्तिकाव्यभाग - भवानीप्रसादमिश्रव्याकरण - फीचरलेखन</p>	स्वतंत्रतासेनानियोंकीसूची,	नाटकमंचनस्वतंत्रतासेनानियोंपरआधारित
सितम्बर	<p>आरोहभाग१- गद्यभाग- गलतालोहावितान - पुनरावर्तिकाव्यभाग-त्रिलोचन, दुष्यंतकुमारव्याकरण-आलेख , निबन्ध</p>	निबन्धलेखन	-वाद-विवादप्रतियोगिता जातिवादऔरनेतिकमूल्यपर



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अक्टूबर	आरोहभाग- गद्यभाग – स्पीतिमेबारिशवितान – राजस्थानकीरजतबूंदे काव्यभाग-अक्कमहादेवी	प्रकृतिपरआधारित --स्वरचितकविता	किसीपहाड़ीजगहकाप्राकृतसौन्दर्यलिखिए ।
नवम्बर	आरोहभाग-गद्यभाग – रजनीऔरजामुनकापेडवितान-पुनरावर्ति काव्यभाग-अवतारसिंहपाश	रचनात्मककार्य – पटकथालेखन	एकांकीमंचन
दिसम्बर	आरोहभाग-गद्यभाग – भारतमातावितान- आलोआधारी काव्यभाग-निर्मलापुतुल	-जीवनी , भारतीयसंस्कृति	देशकेप्रतिकर्तव्योकेसूची
जनवरी	आरोहभाग-गद्यभाग – आत्माकातापऔरपुनरावर्तनकार्य	संघर्षहीजीवनहै ।	संघर्षद्वारासफलताप्राप्तकरनेवालेकाअभिनयकरनाऔरउससेप्रेरणालेना ।
फरवरी	Preboard		

अभिभावकोंकेलिएसुझाव : बच्चोकोसमाचारपत्र , कहानिया ,स्वरचितलेख , शुद्धउच्चारणप्रतियोगितायोमेभागलेनेकेलिएप्रेरितकरना ।

प्रस्तावितपुस्तकेकहानियोंकीपुस्तके , सैपलपेपर्स , जेपीएचहिंदीगाइड

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## INFORMATICS PRACTICES TERM #1

MONTH	SKILL/CONCEPT	CONTENT
APRIL	UNIT 1	<p>Basic computer organisation: describe a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power, transition from a calculator to a computer□</p> <p>Familiarization with the basics of Python programming: a simple "hello world" program,□</p> <p>process of writing a program, running it, and print statements; simple data-types: integer, float, string</p> <p>Introduce the notion of a variable, and methods to manipulate it</p> <p>(concept of L-value and R-value even if not taught explicitly)□</p>
MAY		Safely communicating data: secure connections, eavesdropping, and phishing and identity verification
JULY		<p>Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility.□</p> <p>Notion of iterative computation and control flow: for, while, flowcharts, decision trees and□</p> <p>pseudo code; write a lot of programs: interest calculation, EMI, tax calculation (examples from GST), standard deviation, correlation</p>
AUGUST		<ol style="list-style-type: none"> <li>1- Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary.□</li> <li>2- Text handling: compare, concat, and substring operations.□</li> <li>3- Introduction to Python modules: creating and importing.□</li> </ol>

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SEPTEMBER

Half yearly

## INFORMATICS PRACTICES Term #2

MONTH	SKILL/CONCEPT	CONTENT
OCTOBER	UNIT 2	<p><b>Data Handling (DH-1)</b></p> <p>. Introduction to Python Pandas</p> <p>Introduction to data structures in Pandas: Series, and Data Frame</p> <ul style="list-style-type: none"> <li>• Operations on a Series: head, tail, vector operations</li> <li>• Data Frame operations: create, display, iteration, select column, add column, delete column</li> <li>• Binary operations in a Data Frame: add, sub, mul, div, radd, rsub</li> <li>• Matching and broadcasting operations</li> <li>•</li> </ul>
NOVEMBER		<ul style="list-style-type: none"> <li>• Missing data and filling values.</li> </ul> <p>Comparisons, Boolean reductions, comparing Series, and combining Data Frames. Transfer data between CSV files/SQL databases, and Data Frame objects.</p>

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<b>DECEMBER</b>	<b>UNIT 3</b>	<p><b>Data Management (DM-1)</b></p> <ul style="list-style-type: none"> <li>• Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key;</li> <li>• Use SQL commands to create a table, keys, and foreign keys; insert/delete an entry, delete a table.□</li> </ul> <p>Basic SQL: select, project, and join; indexes, and a lot of in-class practice.</p>
<b>JANUARY</b>	<b>UNIT 4</b>	<ul style="list-style-type: none"> <li>• Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying□</li> <li>• Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules.□</li> </ul> <p>Safely accessing web sites: adware, malware, viruses, Trojans</p>
<b>FEBRUARY</b>	Revision	
<b>MARCH</b>	Final Examination	



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## COMPUTER SCIENCE TERM #1

MONTH	SKILL/CONCEPT	CONTENT
APRIL	Unit 1: Programming and Computational Thinking (PCT-1)	<ul style="list-style-type: none"> <li>Familiarization with the basics of Python programming: a simple "helloworld" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string.</li> <li>Introduce the notion of a variable, and methods to manipulate it (concept of L-value and R-value even if not taught explicitly)</li> <li>Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.</li> </ul>
MAY		<ul style="list-style-type: none"> <li>Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility.</li> <li>Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, primarily testing, and factorials.</li> </ul> <p>Idea of debugging: errors and exceptions; debugging: pdb, break points.</p>
JULY		<p>Lists, tuples and dictionary: finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers and names.</p>
AUGUST		<ul style="list-style-type: none"> <li>Sorting algorithm: bubble and insertion sort; count the number of operations while sorting.</li> </ul> <p>Strings: compare, concat, substring; notion of states and transitions using state transition diagrams</p>



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SEPTEMBER

Half yearly

## COMPUTER SCIENCE Term #2

MONTH	SKILL/CONCEPT	CONTENT
OCTOBER	<b>Unit 2: Computer Systems and Organization (CSO)</b>	<ul style="list-style-type: none"> <li>• Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power.</li> <li>• Types of software: application, OS, utility, libraries.</li> <li>• Language of Bits: bit, byte, MB, GB, TB, and PB.</li> <li>• Information representation: numbers in base 2, 8, 16, unsigned integers, binary addition</li> </ul> Strings: ASCII, UTF8, UTF32, ISCII (Indian script code)
NOVEMBER		<ul style="list-style-type: none"> <li>• Boolean logic: OR, AND, NAND, NOR, XOR, NOT, truth tables, De Morgan 'slaws</li> <li>• Execution of a program: basic flow of compilation – program-&gt;binary-&gt;execution</li> <li>• Interpreters (process one line at a time), difference between a compiler andan interpreter</li> <li>• Running a program: Notion of an operating system, how an operating system runs a program, idea of loading, operating system as a resource manager.</li> </ul> Concept of cloud computers, cloud storage (public/private), and brief introduction to parallel computing.
DECEMBER	<b>Unit 3: Data Management</b>	<ul style="list-style-type: none"> <li>• Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key; use SQL commands to create a table, keys, foreign keys; insert/delete an entry, delete a table.</li> </ul>

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	<b>(DM-1)</b>	<ul style="list-style-type: none"><li>• SQL commands: select, project, and join; indexes, and a lot of in-class practice.</li></ul> Basic of No SQL Databases- MongoDB
<b>JANUARY</b>	<b>UNIT 4: Society , Law and Ethics (SLE-1)- Cyber Safety</b>	<ul style="list-style-type: none"><li>• Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying</li><li>• Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Face book) and specific usage rules.</li><li>• Safely accessing web sites: adware, malware, viruses, Trojans</li></ul> Safely communicating data: secure connections, eavesdropping, and phishing and identity verification.
<b>FEBRUARY</b>	Revision	
<b>MARCH</b>	Final Examination	



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## BIOLOGY TERM #1

MONTH	SKILL/CONCEPT	CONTENT
APRIL	CH-1 THE LIVING WORLD	CHARACTERISTICS OF LIVING BEING, DIVERSITY IN THE LIVING WORLD, TAXONOMIC CATEGORIES.
MAY	CH-2 BIOLOGICAL CLASSIFICATION	CHARACTERISTICS OF FIVE KINGDOMS.
JULY	CH-3 PLANT KINGDOM	ALGAE, PTERIDOPHYTES, GYMNOSPERMS AND ANGIOSPERM
AUGUST	CH-4 ANIMAL KINGDOM	BASIS OF CLASSIFICATION.
SEPTEMBER	CH-5 MORPHOLOGY OF FLOWERING PLANTS	ROOT, STEM, LEAF, FLOWER, FRUIT, SEED AND IMPORTANT PLANT FAMILIES
	CH-6 ANATOMY OF FLOWERING PLANTS	TISSUES (ANIMALS & PLANTS), ANATOMY OF FRUIT, STEM & LEAF.
	CH-7 STRUCTURAL ORGANISATION IN ANIMALS	ANIMAL TISSUES, COCKROACH, MORPHOLOGY AND ANATOMY
	CH-8 CELL, CELL THEORY	PROKARYOTIC AND EUKARYOTIC CELLS, CELL ORGANELLES ETC.



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	CH-9 BIO-MOLECULES	STRUCTURE OF PROTEIN, AMINOACIDE, NECULIC ACID, ENZYMES
	HALF YEARLY EXAMINATION	

## CHEMISTRY TERM:-1

MONTH	SKILL/CONCEPT	CONTENT
APRIL	Some Basic Concepts of Chemistry	General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry



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MAY	Structure of Atom	<p>Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.</p> <p>NCERT Questions</p> <p><u>Practical's:</u></p> <ol style="list-style-type: none"> <li>Content Based Experiment(One)</li> <li>Prepare the standard solution of Oxalic acid and with its help determine the strength of the given solution of Sodium Hydroxide by titration method.</li> </ol>
JUNE	Classification of Elements and Periodicity in Properties	<p>Modern periodic law and the present form of periodic table, periodic trends in properties of elements atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100. NCERT Questions</p> <p><u>Practical's:</u></p> <ol style="list-style-type: none"> <li>Analyse Inorganic salt for one cation and one anion (One Salt)</li> <li>Content Based Experiment(One)</li> </ol>
AUGUST	Chemical Bonding and Molecular structure	<p>Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, Involving s, p and d orbitals and shapes of some simple molecules, molecular orbit theory of homonuclear diatomic molecules(qualitative idea only), hydrogen bond.</p>

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NCERT Questions

Practicals:

5. Content Based Experiment(One)

Analyse Inorganic salt for one cation and one anion(one salt)



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SEPTEMBER	a) States of Matter: Gases, Liquids and Solids b) Chemical Thermodynamics	a) Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behaviour, empirical derivation of gas equation, Avogadro's number, ideal gas equation. Deviation from ideal behaviour, liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) Liquid State: vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations) Solid state: Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties. NCERT Questions b) Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$ , Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction). Introduction of entropy as a state function, Gibb's energy change for spontaneous and non- spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction). NCERT Questions  Practical's:  7. Content Based Experiment(One) 8. Analyse Inorganic salt for one cation and one anion(One Salt)
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## chemistry TERM #2

MONTH	SKILL/CONCEPT	CONTENT
OCTOBER	a) Equilibrium b) Redox Reactions	<p>a) Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium- Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples). NCERT Questions &amp; numericals.</p> <p>b) Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions. NCERT Questions</p> <p>Practicals:</p> <p>9. Content Based Experiment(One) 10. Prepare help standard solution of Sodium Carbonate and with its help determine the strength of the given solution of Hydrochloric acid using titration method 11. Analyse Inorganic salt for one cation and one anion (one Salt)</p>



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NOVEMBER

- a) Hydrogen
- b) s-Block Elements

(Alkali and Alkaline Earth Metals.

- a) Hydrogen Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial; physical and chemical properties of water, heavy water, hydrogen peroxide - preparation, reactions and structure and use; hydrogen as a fuel.

NCERT Questions

- b) Group 1 and Group 2 Elements General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses. Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium.. NCERT Questions

Practicals:

- 12. Content Based Experiment(One)
- 13. Content Based Experiment(One)
- 14. Analyse Inorganic salt for one cation and one anion (one Salt)

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<p>DECEMBER</p>	<p>a) p -Block Elements</p> <p>b) Organic Chemistry- Some Basic Principles and Techniques</p>	<p>a) General Introduction to p -Block Elements Group 13 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group, Boron - physical and chemical properties, some important compounds, Borax, Boric acid, Boron Hydrides, Aluminium: Reactions with acids and alkalies, uses. Group 14 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses. Group -15 Elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; Nitrogen preparation properties and uses; compounds of Nitrogen, preparation and properties of Ammonia and Nitric Acid, Oxides of Nitrogen(Structure only) ; Phosphorus - allotropic forms, compounds of Phosphorus: Preparation and Properties of Phosphine, Halides and Oxoacids (elementary idea only). NCERT Questions</p> <p>b) General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions. Qualitative and Quantitative Analysis      NCERT Questions</p> <p>Practicals:</p> <p>15. Content Based Experiment(One)</p> <p>16. Analyse Inorganic salt for one cation and one anion (one Salt)</p>
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# Modern International School

Dwarka, New Delhi

JANUARY	a) Hydrocarbons b) Environmental Chemistry	a) Classification of Hydrocarbons Aliphatic Hydrocarbons:  Aliphatic Hydrocarbons: Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity. NCERT Questions  b) Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants, acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environmental pollution. NCERT Questions Practicals:  17. Content Based Experiment(One) 18. Analyse Inorganic salt for one cation and one anion (one Salt)  19. Content Based Experiment(One)
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# Modern International School

Dwarka, New Delhi

<b>FEBRUARY</b>	Revision	
<b>MARCH</b>	Final Examination	

