



<p>role of one's native language in shaping thought processes, emotions, and social connections list down the negative impacts of procrastination and learning strategies for better time management. interpret the significance of a title and justify it comment on the use of the first-person narration, symbolism, emotional and nostalgic tone draft character sketches, and write about the character development and its role in enhancing the story's depth and themes write about the author's style, perspective and how their experiences influence their work empathise with the psychological impact of war on people. recognise how language shapes Identity, cultural belonging, and</p>	<p>*define transpose of a matrix *define symmetric and skew- symmetric matrices. *find the transpose of a matrix *differentiate between symmetric. and skew symmetric matrices-(Analytical skill) *arrange the 5 tables in different order- (values and attitude) *define inverse of a matrix (Problem solving skill)</p> <p><b>TOPIC: Determinants</b></p> <p><b>Sub Topics:</b> Determinant- Introduction *Area of triangle- *Adjoint and inverse of a matrix *Solving system of equations using matrix method</p> <p><b>Learning Outcome:</b> <b>Each student will be able to:</b> *Solve the determinant. *define inverse of a matrix. *Perceive the concept of Determinants, minors, cofactors, adjoint and inverse(Observational</p>	<p>of incidence and angle of deviation. <b>Topic:Electric Charges and Field</b> <b>Subtopics:*</b> Electric Charges, Conservation of charge *Coulomb's law-force between two-point charges. <b>Learning Outcomes:</b> <b>Each student will be able to:</b> *apply the formula for quantisation of charge to solve related numerical. *correlate conservation of charges to pair production. *apply Coulomb's Law to calculate electrostatic force between charges.</p>	<p>concentration of different solutions in terms of normality, molarity, molality, mole fraction. Explain the factors (nature, temperature &amp; pressure) effecting solubility of solids and gases in liquids. Solve numerical problems related to molarity, molality, mole fraction. Compare molarity with molality in terms of temperature dependence. State and explain Raoult's law. Explain Henry's laws and its applications. <b>Lab Activity Experiments (6) Qualitative analysis (Salt Analysis)</b> To determine an anion and a cation present in the given salt samples. <b>Group zero salts:</b> <math>\text{NH}_4^+</math> - <math>\text{SO}_4^{2-}</math>, <math>\text{PO}_4^{3-}</math> <b>Group 1 salts:</b> <math>\text{Pb}^{2+}</math> - <math>\text{CH}_3\text{COO}^-</math>, <math>\text{NO}_3^-</math> <b>Group 3 and 4 salts-</b> <math>\text{Al}^{3+}</math> - <math>\text{Cl}^-</math>, <math>\text{SO}_4^{2-}</math> and <math>\text{NO}_3^-</math> <b>Group 4 salts:</b> <math>\text{Zn}^{2+}</math>- <math>\text{Cl}^-</math>, <math>\text{SO}_4^{2-}</math> and <math>\text{NO}_3^-</math> <b>Group 5 salts:</b> <math>\text{Ba}^{2+}</math>, <math>\text{Sr}^{2+}</math>, <math>\text{Ca}^{2+}</math> salts -<math>\text{Cl}^-</math>,</p>	<p><b>Subtopics</b> Flower-A fascinating organ of angiosperms</p> <p>Pre-fertilization: structures and events</p> <p>Post-fertilization: structures and events</p> <p>Apomixis and Polyembryony</p> <p><b>Learning Outcomes</b> Each student will be able to name the different parts of the human male and female reproductive systems. explain the function of each part of the human male and female reproductive systems. draw labelled diagrams of human male and female reproductive systems. compare the gamete formation in males and females.</p>	<p>Language: Introduction, Data Definition Language and Data Manipulation Language, data type - (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause,</p>	<p><b>able to:</b></p> <p><b>Cognitive:</b> 1.Explain the working of monetary exchange system. 2. Define money and money supply and identify its components. 3. Explain the role of money 4.Comprehend the meaning and working of money multiplier and apply the concept in the real life banking system 5. Outline the functions of Central Bank as a facilitator in the financial sector. <b>Affective:</b> 1. Express concern for ethical banking, fair lending practices and financial</p>	<p>Intelligence Tests Culture &amp; Intelligence Emotional Intelligence Special abilities Creativity</p> <p><b>Learning Outcomes:</b> state psychological attributes on which people differ from each other Explain different methods that are used to assess psychological attributes explain what constitutes intelligent behaviour State the features of intellectual deficiency and giftedness</p>	<p>tournaments) Intramurals and Extramurals - Meaning, Objectives &amp; Significance Community Sports Program (Sports Day, Health Run, Run for Fun, Run for a Cause &amp; Run for Unity)</p> <p><b>Learning Outcomes</b> Each student will be able to: Explain types of tournaments and draw Fixtures – Knock-Out (Bye &amp; Seeding) &amp; League (Staircase &amp; Cyclic) Know the different types of committees for organizing tournaments (pre; during &amp; post)</p>
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	<p>emotional expression. relate to and appreciate the sentimental aspects of lit</p> <p><b>2. Poetry:</b> <b>My Mother at Sixty – six by Kamala Das:</b> about the poet theme/message appreciate the fear of loss/separation from old parents the anguish and grief of the daughter helplessness of the young generation poetic forms and figures of speech rhyme and rhythm</p> <p><b>Learning Outcome</b> define a parent-child relationship recognize poetic devices and analyze them identify imagery and symbolism evaluate the tone and mood in the poem Interpret the significance of the ending speak about the theme of aging and mortality relate personal reflection to</p>	<p>skill) * find the area of triangle- (Reasoning) * solve the system of equations using matrices- (Problem solving skill)</p>		<p>SO<sub>4</sub><sup>2-</sup> and NO<sub>3</sub><sup>-</sup></p>	<p>illustrate spermatogenesis and oogenesis with diagrams. mention the difference between spermiogenesis and spermiation. explain the reproductive cycle in human females differentiate between major structural changes in the human ovary during the follicular and luteal phases of the menstrual cycle.(two points) describe fertilization and placentation in humans. enumerate the steps of embryo development. explain the process of parturition and lactation. describe the reproductive parts of a flower. explain the development of male gametophyte and female gametophyte. compare microsporogenesis and megasporogenesis</p>	<p>in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: Cartesian product on two tables, equi-join and natural join</p> <p>Exception Handling (2 Periods) Exception Handling: Introduction, handling exceptions using try-except-finally blocks</p> <p><b>By the end of this unit, each child should</b></p>	<p>inclusivity. 2. Appreciate and respect financial institutions. 3. Develop positive attitude toward responsible money management.</p> <p><b>Psychomotor:</b> 1. Perform banking transactions. 2. Simulate monetary policy decision making. 3. Calculate credit creation in the economy.</p> <p><b>DEVELOPMENT EXPERIENCE OF INDIA 1950 TO 1991</b></p> <ul style="list-style-type: none"> <li>India on the eve of independence (1) Five Year planning</li> </ul>		
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universal appeal.

**3.Short Writing Skill;**  
**Invitations and Replies** -  
**card/printed format:**  
 Format  
 Content  
 Expression  
 Word limit  
 Marking scheme

**Learning Outcome**  
 Identify key elements  
 recognize the essential components of a formal and informal invitation in card format  
 distinguish between formal and informal language and tone used in invitations  
 draft a formal invitation in a card format for events such as weddings, school functions, or official ceremonies.

write an informal invitation for personal occasions like birthday parties, get-togethers, or festivals  
 arrange content neatly in a structured card

draw the diagrams of microsporangium, anatropous ovule, mature embryo sac, longitudinal Section (LS) of a post-pollinated pistil showing entry of pollen tube into a mature embryo sac  
 mention the types of pollination, the agents needed, and its significance.  
 differentiate between autogamy and geitonogamy.  
 describe double fertilization.  
 state three outbreeding devices that flowering plants have developed.  
 explain artificial hybridization.  
 differentiate between albuminous and non-albuminous seeds.(two points)  
 explain apomixis and polyembryony.

**be able to:**  
 1.Understand the structure of a computer system:  
 2. Recognize the roles of hardware and software within a computer system.  
 3. Identify and describe the functions of key components such as the CPU, memory, and input/output devices.  
 Hardware Components:  
 4. Understand the function of various hardware components like input devices (e.g., keyboard, mouse), output devices (e.g., monitor, printer), CPU, and memory (primary, cache, secondary).  
 5. Recognize different

(1)  
 Indian agriculture, industrial growth, foreign trade  
 (5)  
 Learning Outcomes:  
**Cognitive:**  
 Each student will be able to:  
 1. Recall and understand the Key Economic Policies  
 2. Evaluate the Successes and Failures of Economic Policies  
 3. Identify and Explain Causes of Economic Crises  
**Affective:**  
 Each student will be able to:  
 1. Value the Role of Government in Shaping Economic Development:  
 2. Develop a Sense of

format, maintaining clarity and brevity.  
use suitable fonts, layout, and spacing to ensure readability and appeal  
apply creativity and presentation skills.

memory types:  
Primary memory (RAM), cache memory, and secondary memory (hard drives, SSDs, etc.).  
Units of Memory:  
Understand memory units and conversions:  
bit, byte, kilobyte (KB), megabyte (MB), gigabyte (GB), terabyte (TB), and petabyte (PB).  
Be able to perform basic conversions between these units.  
6. Understand the role and functions of system software, including:  
Operating Systems (OS):  
Functions such as managing hardware, memory, processes, and enabling user

Responsibility towards Sustainable Development  
3. Empathise for the Challenges faced in the process of Development.

**Psychomoto**  
**I**:  
1. Construct a Timeline of India's Economic Development.  
2. Conduct Role-Play or Simulate Economic Decision-Making.  
Design a Poster or Infographic on Economic Events

						<p>interaction. System Utilities: Tools for system maintenance, such as antivirus programs, disk cleanup, etc. Device Drivers: Software that facilitates communication between hardware devices and the operating system. Programming Tools and Language Translators: 7. Understand the different language translators: Assembler: Converts assembly language into machine code. Compiler: Converts high-level programming languages (like C, Java) into machine code in one go. Interpreter: Converts high-</p>			
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						<p>level programming languages into machine code line by line.</p> <p>Application Software:</p> <p>8. Understand the role of application software (e.g., word processors, web browsers, and games) in enabling specific tasks or services for the user.</p> <p>9. Understand the core functions of an Operating System, such as:</p> <ul style="list-style-type: none"><li>Process management</li><li>Memory management</li><li>Device management</li><li>File management</li><li>User interface management (CLI vs GUI)</li></ul> <p>OS User Interface:</p> <p>Differentiate between command-line</p>			
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						<p>interfaces (CLI) and graphical user interfaces (GUI). Understand how an OS interacts with the user and facilitates the running of applications.</p> <p>10. Learn the basic Boolean logic gates: NOT (inversion) AND OR NAND (NOT AND) NOR (NOT OR) XOR (exclusive OR) Truth Tables: 11. Understand the concept of truth tables to represent the output of Boolean expressions for different inputs. De Morgan's Laws:</p> <p>12. Understand</p>			
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						<p>and apply De Morgan's laws for simplifying Boolean expressions: The negation of a conjunction is the disjunction of the negations. The negation of a disjunction is the conjunction of the negations. Logic Circuits:</p> <p>13. Be able to design and interpret logic circuits based on Boolean expressions and truth tables.</p> <p>14. Understand the representation and properties of the binary (base-2), octal (base-8), decimal (base-10), and hexadecimal (base-16) number systems. Conversion</p>			
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						<p>Between Number Systems: Learn how to convert numbers between different number systems (e.g., binary to decimal, hexadecimal to binary). 15. Understand character encoding schemes and how text is represented in computers. ASCII (American Standard Code for Information Interchange): A 7-bit encoding scheme for English characters. ISCII (Indian Script Code for Information Interchange): An encoding standard used for Indian languages. Unicode: A</p>			
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more comprehensive encoding system for international text representation, with versions like UTF-8 (variable-length encoding) and UTF-32 (fixed-length encoding).

Basics of Python  
By the end of this topic, each child will be able to:

1. Write and run basic Python programs.
2. Use print statements to output information.
3. Work with simple data types such as integers, floats, and strings.
4. Use if..else statements for decision-making and loops for

						repetitive tasks.			
April	<p><b>1.Long Writing Skill: Letter to the Editor:</b> purpose and importance format and structure tone and language content development common errors and effective writing tips word limit and marking scheme</p> <p><b>Learning Outcome</b> identify the purpose and importance of writing a Letter to the Editor by explaining its role in public discourse and social awareness</p> <p>analyse the correct format and structure of a Letter to the Editor by organizing its components in a given sample</p> <p>evaluate the effectiveness of tone and language by distinguishing between formal, persuasive, and objective writing styles in different</p>	<p><b>TOPIC: Inverse trigonometric Function</b></p> <p><b>Sub Topics:</b> *Graphs *Domain and Range (Principal Value Branches)</p> <p><b>Learning Outcome</b> <b>Each student will be able to</b></p> <p>*evaluate the domain / range of inverse trigo functions *perceive the concept of principle branches *sketch the graphs of inverse trigo functions.</p> <p><b>Topic: Continuity and Differentiability</b></p> <p><b>Sub Topic:</b> *Chain Rule, product Rule and Quotient Rule – Recapitulation</p> <p>*Implicit and Inverse trigonometric function Derivatives</p>	<p><b>Topic: Electric Charges and Fields</b></p> <p><b>Subtopics:</b> .*Superposition principle.* Electric field, electric field due to a point charge * Electric field lines, electric dipole, electric field lines. *Electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. *Electric Flux, Gauss's Theorem, Applications of Gauss's Theorem (field due to infinitely long straight charged wire and plane sheet of charge)</p> <p><b>Topic: Electric Potential and Capacitance</b></p>	<p><b>Topic: Solutions contd</b> <b>Sub-Topics:</b> Applications of Henry's law Solid solutions (Raoult's law). Deviations from Raoult's law-Ideal, non-ideal solutions (+ve,-ve deviations), Azeotropes Colligative properties-relative lowering of Vapour pressure, elevation of BP, depression of freezing point, osmotic pressure Determination of molecular mass of solute using colligative properties. Numerical problem related to above concepts. Concept of Abnormal molecular mass, Vant Hoff factor &amp; related numerical.</p> <p><b>Learning Outcomes:</b> <b>Each student will be able to:</b> Compare Henry's and Raoult's Law. Compare and</p>	<p><b>Topic: Principles of Inheritance and Variation</b></p> <p><b>Subtopics:</b> Mendel's Laws of Inheritance</p> <p>Inheritance of One Gene</p> <p>Test Cross</p> <p>Incomplete Dominance</p> <p>Codominance</p> <p>Inheritance of Two Genes Chromosomal theory of inheritance</p> <p>Linkage and Recombination</p> <p>Sex Determination</p> <p>Mutation</p> <p>Pedigree Analysis</p> <p>Genetic disorders</p>	<p>Class XI revision tour (3 days) Syntaxes-loops, if...else Revision Class XI-Functions Lists, Tuples, Dictionaries, Strings- functions and applications-</p> <p>File handling: Text Files-(6 days) open and close a file, read, write, and append to a file, standard input, output, and error streams, relative and absolute paths. open() with open() close() read() readlines() readline()</p> <p>Binary Files-(10 days) Basic operations on</p>	<p><b>GOVERNMENT BUDGET</b> meaning and objectives of government budget (2) Components of overnment budget (2) Differentiation between various components of budget (3) types of budget and deficits Implication of Revenue Deficit, Fiscal Deficit and Primary Deficit. (3)</p> <p>Learning Outcomes: Each student would be able to:</p> <p><b>Cognitive</b> 1.Comprehend the meaning</p>	<p><b>Unit 2:[ SELF AND PERSONALITY</b> Concept of self Cognitive and behavioral aspects of self Culture and self Concept of personality</p> <p>Psychodynamic approach to personality <b>Learning Outcomes:</b> describe the concept of self State the techniques for self-regulation of behaviour</p> <p>explain the concept of personality</p>	<p><b>Unit II - Children &amp; Women in Sports</b></p> <p>Exercise Guidelines of WHO for Different Age Groups</p> <p>Common Postural Deformities (Knock Knee, Bow Legs, Flat Foot, etc.)</p> <p>Women Participation in Sports - Physical, Psychological &amp; Social Benefits</p> <p>Special Considerations (Menarche &amp; Menstrual Dysfunction)</p> <p>Female Athletes Triad (Osteoporosis, Amenorrhoea, Eating Disorders)</p>

<p>examples</p> <p>compose a well-structured Letter to the Editor, ensuring logical content development with a clear introduction, body, and conclusion</p> <p>revise a draft of a Letter to the Editor by identifying and correcting common errors and applying effective writing tips</p> <p>demonstrate adherence to the prescribed word limit and marking scheme by drafting a concise and impactful letter within the given constraints</p> <p><b>2. Prose: The Tiger King by Kalki:</b> pun in the title satire on power and arrogance . irony and fate themes of superstition vs. rationality environmental message narrative style and humor</p>	<p>*Logarithmic Differentiation Watch the link given below for the first three minutes (Implicit functions ) - (Flipped Learning) <a href="https://www.youtube.com/watch?v=vP_cMPqxxto&amp;t=54s">https://www.youtube.com/watch?v=vP_cMPqxxto&amp;t=54s</a></p> <p><b>Learning Outcomes:</b> <b>Each student will be able to:</b> *find the inverse and adjoint of a Matrix, calculate the area of the triangle.</p> <p>*solve the given system of equations upto 3 variables *recall the chain rule, quotient and product rule *find the derivative of implicit function and inverse Trigonometric functions *list the properties of logarithms</p> <p>*perceive the concept of Logarithmic differentiation &amp; parametric function</p> <p><b>Topic:</b> <b>Continuity and Differentiability</b></p> <p><b>Sub Topic:</b> Logarithmic</p>	<p><b>Subtopics:</b> *Electric potential, potential difference, electric potential due to a point charge. *Electric potential due to a point charge, a dipole and system of charges; equipotential surfaces. *Electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators. *Dielectrics, Electric polarization, Capacitors and Capacitance.</p> <p><b>Topic: Current Electricity:</b> <b>Subtopics:</b>*Electric current, flow of electric charges in a metallic conductor. *Drift velocity,</p>	<p>contrast ideal and non-ideal solutions (+ve and -ve deviations) based on intermolecular forces and behavior. Draw graphical representations related to Raoult's Law and colligative properties. Define the terms: vapor pressure, boiling point, freezing point, osmosis, osmotic pressure and reverse osmosis. Explain the term colligative properties, derive their expressions and correlate these with molar masses of the solutes. Explain abnormal colligative properties exhibited by some solutes in solutions. Solve numerical related to Raoult's law, colligative properties and determination of molecular mass of the solute, Abnormal molecular mass and Vant Hoff factor. Compare Henry's and Raoult's law.</p> <p><b>Topic: Halo-alkanes</b></p>	<p><b>Learning Outcomes</b> Each student will be able to:</p> <p>give reason as to why Mendel chose pea plants for his experiments.</p> <p>describe Mendel's Laws of Inheritance (Law of Segregation, Law of Independent Assortment).</p> <p>explain and design a test cross.</p> <p>interpret the genotype and phenotype by analyzing the monohybrid cross.</p> <p>compare dominance, codominance, and incomplete dominance, giving one example of each.</p> <p>differentiate between monohybrid and dihybrid crosses giving two points. interpret the genotype and</p>	<p>a binary file: Open (filename – absolute or relative path, mode) / Close a binary file, Pickle Module – methods load and dump; Read, Write/Create, Search, Append and Update operations in a binary file.</p> <p><b>Each child will be able to</b> =&gt;Recognize why files are needed and the purpose of storing data in a file to be used by a program =&gt;Identify the different types of files limited to text, csv and binary files. Identify when to use files to solve a problems =&gt;be able to read/write text files</p>	<p>of government budget and evaluate its objectives. 2. Explain and illustrate various components of government budget with the help of examples 3. Compare and contrast various components of government budget. 4. Analyse various types of budget deficit and assess their implication.</p> <p><b>Affective:</b> 1. Appreciate the significance of balancing government revenues and expenditures to ensure economic stability. 2. Develop</p>	<p><b>Learning Outcomes:</b> Each student will be able to:</p> <p>Differentiate exercise guidelines for different stages of growth and development. Describe different postural deformities and their cause and remedy.</p> <p>Recognize the role and importance of sports participation of women in India.</p> <p>Identify special considerations related to menarche and menstrual dysfunction.</p> <p>Know the signs and symptoms of female athletes' triad.</p> <p><b>Unit III - Yoga as a Preventive</b></p>
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<p>symbolism of the toy tiger</p> <p><b>Learning Outcome</b> speak on the double meaning of the title</p> <p>The Tiger King and explain how it reflects both the king's session and his eventual downfall.</p> <p>evaluate how Kalki uses satire to critique autocratic rulers, citing examples from the text.</p> <p>identify and explain examples of irony in the story and discuss their impact on the narrative.</p> <p>compare the king's blind faith in superstition with logical reasoning, and discuss how the theme is relevant today.</p> <p>discuss the ecological consequences of the king's actions and relate them to modern wildlife conservation efforts.</p>	<p>Differentiation</p> <p>*Parametric Differentiation</p> <p>*Higher order Derivatives (2 days)</p> <p>*Continuity of a function</p> <p>*Differentiability</p> <p>Assignment</p> <p>Students will be asked to read Derivatives of functions in parametric form and solve examples 34 to 37 - (Flipped Learning)</p> <p><b>Topic:</b> Application of Derivatives</p> <p><b>Sub Topic:</b></p> <p>*Increasing Decreasing Function</p> <p>*Rate of change</p> <p>Students will be asked to read the examples based on rate of change (Flipped Learning)</p> <p><b>Learning Outcomes:</b></p> <p>Each student will be able to:</p>	<p>mobility.</p> <p><b>Learning Outcomes:</b> <b>Each student will be able to:</b></p> <p>* infer the equation of force due to multiple charges on the basis of superposition principle.</p> <p>*represent electric field lines due to different charge distribution.</p> <p>*compare the electric field lines due to a point charge with that of a dipole.</p> <p>* graphically represent the variation of Electric field intensity due to a point charge and a dipole.</p> <p>*explain the origin of torque on an electric dipole due to external field and relate torque to real life situations where torque is applied.</p> <p>*state Gauss's</p>	<p><b>and Haloarenes</b></p> <p><b>Sub Topics:</b> Classification, Nomenclature and isomerism. Methods of preparation Physical and chemical properties <math>S_N2</math>, <math>S_N1</math> mechanisms E2 and E1 mechanisms Stereochemical aspects of <math>S_N</math> mechanism (Chirality check activity) Chemical Properties of Haloarenes. Synthesis, logical reasoning, application, analysis, comparison, identification and conversion-based problem questions. Polyhalogenated compounds.</p> <p><b>Learning Outcomes:</b> <b>Each student will be able to:</b> Define and classify halogenated compounds. Name haloalkanes and haloarenes according to the IUPAC system of nomenclature from their given</p>	<p>phenotype by analyzing the dihybrid cross. construct Punnett Squares to predict phenotypic and genotypic ratios in genetic crosses.</p> <p>explain the chromosomal theory of inheritance.</p> <p>justify that linkage and crossing over are alternatives to each other.</p> <p>describe sex determination in human beings.</p> <p>mention sex determination in birds and honey bees.</p> <p>differentiate between Mendelian and chromosomal disorders. (any two points)</p> <p>explain any two Mendelian disorders with their crosses.</p> <p>interpret pedigree</p>	<p>=&gt;be able to read files letter by letter/ word by word/ sentence by sentence Flipped Learning: NCERT Extract Text File programs</p> <p>Each child will – Recognize when to use operations on files including - Open (in read, write, append mode) - opening a file using with clause - close a file - Read a record from a file - Search a file - write a record to a file</p> <p>Each child will be able to– =&gt;Create Binary Files =&gt;apply tell() and seek() for random file</p>	<p>an understanding of the importance of fiscal responsibility in managing public funds.</p> <p><b>Psychomotor:</b> <b>1.</b> Learners will be able to effectively present budget information to different audiences using visual aids and clear communication.</p> <p><b>HUMAN CAPITAL FORMATION</b></p> <p>meaning of human capital; human capital formation (2)</p> <p>meaning of education and its objectives, Need for government</p>	<p><b>Measure for Lifestyle Diseases</b></p> <p>Obesity (Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottasana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama)</p> <p>Diabetes (Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajrasana, Paschimottasana, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati)</p> <p>Asthma (Tadasana, Urdhwahastotta)</p>
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<p>examine Kalki's use of humour and exaggeration, identifying key literary devices.</p> <p>interpret the significance of the toy tiger and justify its role in fulfilling the prophecy.</p> <p>design a poster to spread awareness about saving the tiger population</p> <p>write a letter expressing concern on the decline of tiger population</p> <p>debate on superstition vs. rationality express personal views on the misuse of power in history and contemporary society, drawing parallels to the story.</p> <p>advocate for wildlife conservation by preparing a presentation on the dangers of animal exploitation.</p> <p>demonstrate an</p>	<p>*recall the properties of logarithms *differentiate the parametric form *find the higher order derivative of functions *recall the concept of limits *define a continuous function *apply the concept of continuity to check whether a function is continuous or not *identify the function to be *finding the intervals in which the function is increasing or decreasing. *Find the rate of change of quantities *calculate the point of max/min in a given Interval *apply the first derivative test to find all points of local maxima/minima of a function *apply the second derivative test to examine local maxima or local minima *differentiate btw absolute max/min and local max/min *apply the concept of</p>	<p>law and express it mathematically. *apply Gauss's law to calculate the electric field intensity due to a straight wire, thin spherical shell, and plane sheet of charge. *draw graphs to show the variation of E and V with r for the above charge distribution *Differentiate between electric potential and potential difference. *Correlate electrostatic potential energy with stability of dipole and work done. *List the points of difference between polar and nonpolar dielectric. *Deduce mathematical equation for capacitance of a parallel plate capacitor. *Compare the</p>	<p>structures. Write equations for the preparation of haloalkanes and haloarenes. Use stereochemistry as a tool for understanding the reaction mechanism. Write equations for the chemical properties of haloalkanes and haloarenes. Explain and write name reactions-Sandmeyer's, Wurtz-Fittig, Fittig reaction. Write equations for the chemical properties of haloalkanes-nucleophilic &amp; electrophilic substitution reactions. Solve interconversions, reasoning and application-based questions related to haloalkanes and haloarenes. Appreciate the applications of organo-metallic compounds. Know and explain about uses of commercially important poly-</p>	<p>charts to trace inheritance of genetic disorders like Haemophilia, Colour Blindness, and Sickle Cell Anaemia.</p> <p>explain any two chromosomal disorders.</p> <p>differentiate between Klinefelter's syndrome and Turner's syndrome. (2 points)</p>	<p>pointer movement =&gt;Insert and display records =&gt;Search Records =&gt;Modify records =&gt;Delete Records</p> <p>Flipped Learning: Algorithms to read, write, search, modify and delete records</p>	<p>intervention in health and education sector (3) Growth of education sector in India (2)</p> <p><b>Learning Outcomes: Each student would be able to:</b></p> <p><b>Cognitive:</b> 1. Define human capital and human capital formation 2. Compare and contrast the concept of human capital and human development. 3. <b>Identify the relationship</b> between human capital and economic growth. 4. Assess the sources of human capital formation. 5. Comprehend</p>	<p>nsana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalbhati, Gomukhasana Matsyaasana, Anuloma-Viloma)</p> <p>Hypertension (Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadishodhanapranayam, Sitlipranayam)</p> <p>Back Pain/Arthritis (Tadasana, Urdhawahastootanasana, Ardha-Chakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrasana,</p>
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	<p>understanding of satire by sharing examples of similar humorous critiques from literature or media.</p> <p><b>3. Prose:</b> <b>Deep Water by William Douglas:</b></p> <p>theme of fear and courage autobiographical elements symbolism of water psychological impact of trauma use of narrative techniques moral and life lessons</p> <p><b>Learning Outcome</b> explain how fear influences human behaviour and explain how courage can help overcome personal challenges with reference to Douglas's transformation from fear to courage. identify autobiographical elements in Deep Water and evaluate how personal experiences shape literary works</p>	<p>max/min to solve word problems</p>	<p>energy stored in a capacitor in series combination with that in parallel combination. *Draw Venn diagram to enumerate the points of difference between capacitance of a capacitor with dielectric between its plate and that with a conducting slab. *Apply formulae and concepts to solve related questions from sample papers, NCERT and board papers. *Explain why electrons drift through a conductor when p.d is applied. *Deduce the equation for drift velocity of electrons</p> <p><b>Lab Activity:</b>* To determine angle of minimum</p>	<p>halogen compounds. Highlight the environmental effects of poly-halogen compounds. Solve interconversions and equation-based questions on aliphatic and aromatic halogenated compounds. Distinguish between the following mechanisms-<math>S_N2</math>, <math>S_N1</math> and <math>E2</math>, <math>E1</math>. Interpret the relative reactivity of haloalkanes towards <math>S_N2</math> and <math>S_N1</math> mechanisms. Correlate the structures of haloalkanes and haloarenes with various types of reactions (relative reactivity of haloalkanes towards nucleophilic substitution reactions). Predict the structure of the products in the chemical reactions of halogenated compounds.</p> <p><b>Art Integration Activity</b> <b>(Poster/ Comic</b></p>			<p>the relationship between human capital and economic growth. 6. Analyse the need for government spending on health and educational attainment.</p> <p><b>Psychomotor:</b> Use statistical data to identify trends in human capital development and its impact on economic and social outcomes.</p> <p><b>Affective:</b> Recognize the role of education and healthcare in shaping societal well-being</p>		<p>, Bhujandgasana, Gomukhasana, Bhadrasana, Makarasana, NadiShodhana pranayama)</p> <p>Procedure, Benefits &amp; Contraindications for preventive asanas</p> <p><b>Learning Outcomes:</b></p> <p>Each student will be able to:</p> <p>Know Lifestyle Diseases.</p> <p>Describe the procedure, benefits &amp; contraindications of the asanas</p>
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compare incidents from Douglas's life with other autobiographies and justify their connections. examine the use of literary devices (imagery, flashback, first-person narration) and assess their impact on the reader's experience identify at least three narrative techniques used by Douglas. interpret the symbolic meaning of water in the story and relate it to broader human emotions and challenges write a letter expressing their concern on how to overcome fear reflect on how past traumatic experiences influence an individual's psychological state and behavior express the moral lessons of perseverance, resilience, and self-belief in overcoming

deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.(contd )  
**Lab Activity:**  
\*To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.

**strip)**  
**Topic: - Comparison of the reactivity of different types of alkyl halides towards S<sub>N</sub>2 and S<sub>N</sub>1 mechanism.**  
**Lab Activity 1**  
**Qualitative analysis**  
To determine an anion and a cation present in the given salt samples.  
**Unknown sample practice.**  
**Lab Activity 2**  
**(Volumetric Analysis)**  
Determine the molarity and strength of the given KMnO<sub>4</sub> solution by titrating it against M/40 Mohr's Salt solution. You are required to prepare 25 ml of M/40 Mohr Salt solution.

adversity.  
engage in a debate  
on the importance of  
facing fears and  
taking risks in life.

**4. Prose:**

**The Third Level by  
Jack Finney:**

theme of escapism  
and fantasy vs.

reality

time travel and the  
concept of the past

the unreliable

narrator and

perception of reality

symbolism and

literary devices

relevance to

modern-day stress

and anxiety

first day cover

**Learning Outcome**

explain the theme of

escapism and

fantasy vs. reality in

literature, identifying

key examples and

their significance

evaluate the role of

an unreliable

narrator in shaping

the reader's

perception of reality

and discuss its

impact on

storytelling

interpret symbolism

and literary devices

used in texts to

convey deeper

meanings,  
especially in relation  
to time travel and  
perception of the  
past  
create a first day  
cover incorporating  
symbolism and  
imagery related to  
time travel, fantasy,  
or escapism  
construct a  
comparative  
analysis of how  
different texts  
explore the past and  
reality vs. illusion,  
presenting findings  
through a visual or  
digital presentation  
reflect on the  
relevance of  
escapism and  
fantasy in managing  
modern-day stress  
and anxiety,  
expressing personal  
insights through a  
diary entry or a  
class discussion.

**5. Prose: Lost  
Spring:**  
theme of poverty  
and child labour  
symbolism of 'Lost  
Spring'  
contrast between  
dreams and reality  
cycle of poverty and  
tradition  
social injustice and

government apathy  
importance of  
education and  
change  
justification of the  
title  
**Learning Outcome**  
explain how poverty  
leads to child labour  
analyze social and  
economic factors  
behind child labour  
interpret the  
metaphor of lost  
spring  
compare Saheb and  
Mukesh's lost  
childhood with  
privileged children  
evaluate how  
dreams can break  
poverty cycles.  
illustrate how  
poverty is inherited  
assess the impact of  
social reforms  
justify the title Lost  
Spring  
draft a notice on  
anti-Child Labour  
Day  
write a letter to the  
editor on child  
labour suggesting  
solutions  
create an interview  
engage in a  
discussion on  
eradicating child  
labour  
debate on, Child

	Labour, a global concern								
May	<p><b>1.Short writing</b></p> <p><b>Skill:</b> <b>Notice writing:</b></p> <p><b>Format:</b> name of the issuing organisation the word <b>NOTICE</b> date heading writer's name and designation <b>Content:</b> what, where, when,</p>	<p><b>Topic:</b> Application of Derivatives</p> <p><b>Sub Topic:</b> *Maxima and minima Introduction Local Maxima Minima Absolute Maxima Minima First Derivative Test Second Derivative Test Read examples 34-37 (Flipped Learning)</p>	<p><b>Topic: Current Electricity</b></p> <p><b>Subtopic:</b> *Relation between drift velocity and electric current. *Ohm's law, electrical resistance, V-I characteristics (linear and non-linear) *Electrical</p>	<p>Topic: Alcohols, Phenols &amp; Ethers Sub-Topics: Classification, IUPAC nomenclature and Isomerism, Structure of functional group. Methods of preparation of Alcohols including Hydration and Hydroboration</p>	<p><b>Topic:</b> Molecular Basis of Inheritance</p> <p><b>Subtopic:</b></p> <p><b>cs:</b> Structure of polynucleotide chain</p> <p>Packaging of DNA helix</p> <p>The Search for Genetic Material</p>	<p><b>Project work Discussion</b></p> <p>Unit III: Database - Management:- (17 days) Interface of python with an SQL database: connecting SQL with Python, performing</p>	<p><b>NATIONAL INCOME</b></p> <p>Introduction, meaning of circular flow, stock and flow variables, domestic territory, normal resident, factor and</p>	<p><b>Unit 2: SELF AND PERSONALITY</b></p> <p>Major approaches to personality Assessment of personality <b>Learning Outcomes:</b> differentiate between various</p>	<p><b>Unit IV - Physical Education &amp; Sports for CWSN (Children with Special Needs - Divyang)</b></p> <p>Organizations promoting Disability Sports (Special Olympics;</p>

<p>how</p> <p><b>Expression:</b> overall organisation relevance of the content grammatical accuracy and fluency word limit marking scheme</p> <p><b>Learning Outcome</b> identify and apply the correct format of a notice differentiate between formal and informal writing styles recall essential elements required in an effective notice write a structured and well-formatted notice edit and proofread a notice to enhance clarity and correctness appreciate the importance of clear communication in official contexts develop responsibility in conveying messages effectively to a target audience cultivate a sense of professionalism and attention to detail.</p>	<p><a href="https://www.youtube.com/watch?v=1c-TGkqVUUM&amp;t=320s">https://www.youtube.com/watch?v=1c-TGkqVUUM&amp;t=320s</a></p> <p><b>Learning Outcome</b></p> <p>*calculate the point of max/min in a given Interval *apply the first derivative test to find all points of local maxima/minima of a function *apply the second derivative test to examine local maxima or local minima *differentiate btw absolute max/min and local max/min *apply the concept of max/min to solve word problems</p> <p><b>Topic:</b> Integration <b>Sub Topic:</b> Introduction- *Difference between integration and differentiation *Integration by substitution  *Integration of Trigonometric function</p> <p>Students to watch the video to know how to apply substitution method to integrate (Flipped Learning)</p>	<p>resistivity and conductivity. *Electrical energy and power. *Emf and potential difference and internal resistance of cell *Cells in series and parallel. *Kirchhoff's laws and simple applications, Wheatstone bridge.</p> <p><b>Topic: Moving Charges and Magnetism.</b> <b>Subtopics:</b> *Concept of magnetic field, Oersted's experiment. *Biot - Savart law and its applications. *Ampere's law and its applications to infinitely long straight wire *Straight and toroidal solenoids (only qualitative treatment) *Force on a</p>	<p>Methods of preparation of Alcohols and Phenols including mechanisms. Name reaction (Riemer Tiemann &amp; Kolbe reaction) Acidity of aliphatic alcohols &amp; phenol Physical and Chemical Properties and uses of ethyl alcohol phenol (Electrophilic aromatic substitution reaction) Mechanisms Distinguish test for the different types of alcohols</p> <p>(1<sup>o</sup>, 2<sup>o</sup>, 3<sup>o</sup>) Luca's and other tests Diethyl ether: Mechanisms related to the preparation (Williamson's synthesis) and chemical properties of ethers. Chemical properties of Aliphatic (Reaction with HI) and Aromatic ethers (Anisole) Synthesis, logical reasoning, application, analysis, comparison,</p>	<p>The Genetic material is DNA</p> <p>Replication</p> <p>Transcription</p> <p>Genetic code</p> <p>Translation</p> <p>Regulation of Gene Expression</p> <p>Human Genome Project</p> <p>DNA fingerprinting</p> <p><b>Learning Outcomes</b> Each student will be able to explain the salient features of DNA double helix structure. compare the packaging of DNA helix in prokaryotes and eukaryotes. justify giving reason that RNA is the first genetic material. compare the features of DNA and RNA (Give two points) explain the</p>	<p>insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity application</p> <p><b>Learning Outcomes</b> <b>Each child will be able to–</b> =&gt;Create MYSQL database, tables and execute MYSQL queries through Python using mysql.connect or</p> <p>Flipped Learning: Algorithms to read, write, search, modify and delete records Project code for</p>	<p>transfer income, final and intermediate goods, gross and net investment, depreciation, NIT and NFIA. (6)</p> <p>Basic aggregates (2). Methods to calculate National Income (09)</p> <p><b>Learning Outcomes:</b> Each student would be able to:</p> <p><b>Cognitive:</b> 1. Define circular flow of income, stock and flow variables, domestic territory, normal resident, factor and transfer income, final and intermediate goods, gross</p>	<p>approaches to the study of personality</p> <p>Describe the different methods of assessing personality</p>	<p>Paralympics; Deaflympics)</p> <p>Concept of Classification and Divisioning in Sports</p> <p>Concept of Inclusion in sports, its need, and Implementation</p> <p>Advantages of Physical Activities for children with special needs</p> <p>Strategies to make Physical Activities assessable for children with special needs</p> <p><b>Learning Outcomes:</b> Each student will be able to:</p> <p>Differentiate between Special Olympics; Paralympics, and Deaflympics</p>
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	<p><b>2. Poetry:</b>  <b>Keeping Quiet by Pablo Neruda:</b>          theme of silence and Introspection          universal brotherhood          critique of human activities, how constant action leads to destruction and unrest          poetic devices          symbolism in the poem          message of renewal and change</p> <p><b>Learning Outcome</b>          identify and explain the central theme of silence and introspection in the poem          list and analyse the poetic devices used in the poem.          compare the poet's views on universal brotherhood with a real-world example in a written response          evaluate the impact of human actions on nature as discussed in the poem,          suggest two practical solutions          reflect on a personal experience where silence led to self-</p>	<p><a href="https://www.youtube.com/watch?v=jrFio2siOal">https://www.youtube.com/watch?v=jrFio2siOal</a>          *Special Integrals (2 days)          Teaching Point:          Integration is an process of differentiation          Learning Outcomes:          Each student will be able to:          *calculate the point of max/min in a given Interval          *apply the first derivative test to find all points of local /minima of a function          *apply the second derivative test to examine local maxima or local minima          *differentiate btw absolute max/min and local max/min          *apply the concept of max/min to solve word problems</p> <p><b>Topic: Integrals</b>          *define the concept of anti derivative          *learn the integral of basic functions by the method of inspection          *integrate by substitution          *apply the method of substitution to          *solve problems of integration by using</p>	<p>moving charge in uniform magnetic field          *Force on a current carrying conductor in a uniform magnetic field, between two parallel current-carrying conductors .          *Torque experienced by a current loop in uniform magnetic field.          *Moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter.          *1 class for Weekly Test 1 (15 marker)</p> <p><b>Learning Outcomes:</b>  <b>Each student will be able to :</b>          *Relate drift velocity to electric current mathematically.          *Interpret the relation between drift velocity and mobility of electrons.          *Draw VI graphs</p>	<p>identification and conversion-based questions.  <b>Learning Outcomes:</b>          Each student will be able to:          Name alcohols, phenols and ethers          according to IUPAC nomenclature.          Write equations for the preparation of alcohols from (i) alkenes (ii) aldehydes, ketones and carboxylic acids.          Write equations for the preparation of phenols from (i) haloarenes (ii) benzene sulphonic acids (iii) diazonium salts and (iv) cumene.          Explain the name reactions and their mechanism (Reimer Tieman reaction, Williamsons Synthesis, Kolbe reaction).          Draw the isomers for a given molecular formulae.          Solve equation-based questions and</p>	<p>Hershey-Chase experiment as well as Meselson and Stahl's experiment.          describe the mechanism of replication of DNA and its importance.          draw and label a detailed schematic diagram of the DNA double helix and replication fork.          explain the initiation, elongation, and termination process of transcription in bacteria.          mention two salient features of the genetic code.          list the essential role of the ribosome during translation.          explain the process of translation.          describe the role of lactose in the lac operon.          state why the Human Genome Project is called a mega project.          list the steps of DNA fingerprinting</p>	<p>connectivity-café management system          Sample Project XII          Sample Project Synopsis</p>	<p>and net investment.          2.Apply the concept of depreciation, NIT and NFIA in conversion of basic aggregates.  <b>Psychomotor:</b> Solve Numericals based on three methods viz Income Method, Value Added Method and Expenditure Method          1.Compare and contrast Real National Income with Nominal National Income.  <b>Affective:</b>          1. Appreciate the role of national income as a key economic indicator.</p>		<p>Understand concepts and the importance of inclusion in sports          Describe the activities &amp; strategies for children with special needs  <b>Unit VII - Physiology &amp; Injuries in Sports</b>          Physiological factors determining components of physical fitness          Effect of exercise on Muscular System          Effect of exercise on Cardio-Respiratory System          Physiological changes due to aging          Sports injuries: Classification (Soft Tissue</p>
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	<p>awareness and share insights in a class discussion create a short poem/song inspired by keeping quiet, emphasising renewal and change.</p> <p><b>3. Poetry:</b> <b>A Thing of Beauty by John Keats:</b> beauty as an eternal source of joy and inspiration role of nature in providing comfort and relief from sorrows contrast between suffering and beauty Keats' romantic ideals – focus on imagination, nature, and transcendence symbolism and imagery beauty as a permanent source of happiness and spiritual nourishment.</p> <p><b>Learning Outcome</b> identify and quote lines from the poem that highlight beauty's everlasting joy list at least three natural elements mentioned in the</p>	<p>trigonometric identities Topic: Integrals</p> <p><b>Learning Outcomes:</b> Each student will be able to</p> <ul style="list-style-type: none"> <li>*define the concept of anti derivative</li> <li>*learn the integral of basic functions by the method of inspection</li> <li>*apply the method of substitution to solve problems of integration by using trigonometric identities</li> <li>*derive the solution of special integrals</li> <li>*apply the method of by parts and partial fractions to solve problems substitution</li> </ul>	<p>for Ohmic and non Ohmic conductors.</p> <ul style="list-style-type: none"> <li>*Differentiate between resistivity and conductivity of a conductor.</li> <li>*Explain the effect of temperature on the resistance and resistivity of a conductor.</li> <li>*Graphically show the variation of resistance and resistivity with temperature for conductors, insulators and semiconductors.</li> <li>*Express electrical energy and power mathematically.</li> <li>*Distinguish between emf and potential difference of a cell.</li> <li>*Write expression for the emf and the effective internal resistance in case of combination of cells.</li> <li>* State</li> </ul>	<p>interconversions on the preparation of aliphatic and aromatic alcohols. Solve equation-based questions and interconversions on the preparation of aliphatic and aromatic ethers. Solve equation-based questions on the chemical properties of aliphatic and aromatic ethers (Anisole) and related interconversions. Correlate physical properties and acidity of alcohols, phenols and ethers with their structures. Distinguish between different types of alcohols based on Luca's and other tests and also write the equations involved.</p> <p><b>Topic: Biomolecules</b> <b>Sub-Topics:</b> Carbohydrates Classification D&amp;L configuration, Epimers, Chemical properties of Glucose Cyclic structure of monosaccharides- Fischer and Haworth</p>			<p>2. Develop empathy for the social and economic disparities highlighted by the national income distribution.</p> <p>3. Develop a strong belief in the need for policies that foster inclusive and equitable economic growth.</p>		<p>Injuries - Abrasion, Contusion, Laceration, Incision, Sprain &amp; Strain; Bone &amp; Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique &amp; Impacted)</p> <p><b>Learning Outcomes:</b></p> <p>Each student will be able to:</p> <p>Explain the Physiological Determinants of Strength, Speed, Endurance &amp; Flexibility</p> <p>Students will know the Immediate and Long-term effects of Cardio Respiratory system</p> <p>Understand the physiological changes due to</p>
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	<p>poem that provide solace compare two contrasting images in the poem—one representing suffering and one representing beauty. Identify key Romantic features in the poem and justify their presence with textual evidence explain how nature helps humans overcome despair, citing examples from the poem evaluate the poet's perspective on overcoming suffering through beauty in a class discussion or written response explain how Keats conveys the idea of beauty as a source of hope in a short written response create a short paragraph or poem reflecting Keatsian ideals, incorporating imagination, nature, and transcendence.</p> <p><b>4. Long Writing Skill:</b> <b>Article Writing:</b> <b>Format</b></p>		<p>Kirchhoff's rules and apply it to obtain balance condition of Wheatstone bridge. *Compare magnetic field with that of electric field. *Apply Biot Savart law to determine magnetic field intensity due to different current configurations. *Interpret from Ampere's circuital law that surface integral of B over closed surface is zero. * Deduce expression for magnetic field intensity due to a current carrying loop, infinite straight wire. * Compare and contrast the magnetic field due to a solenoid and toroid. *Explain the difference in the force experienced by</p>	<p>Projection, Anomers, Mutarotation, glycosidic bond - oligosaccharides and polysaccharides Proteins- Amino acids, classification, characteristics, types and structure of proteins, Peptide bond, Denaturation Nucleic acids- DNA, RNA, nucleoside, nucleotide, phosphodiester bond Vitamins- significance, types and deficiency diseases. <b>Learning Outcomes:</b> Each student will be able to: Define and classify carbohydrates and monosaccharides. Explain the chemical reactions of glucose for the structure determination of glucose. Explain D &amp; L configuration in monosaccharides. Explain the cyclic structure of glucose and fructose.</p> <p>Explain the terms</p>					<p>ageing</p> <p>Classify sports injuries with its Management</p>
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title  
by line  
**Content**  
Para 1 : brief introduction of the status of the issue  
Para 2 : analysis of the topic  
Para 3: implications- social/environmental /psychological /health related  
Para 4: concluding para-suggestions / reminders.  
**Expression**  
grammatical accuracy, spellings, coherence, relevance of ideas and style  
**Learning Outcome**  
write an article as per the format with appropriate expressions and content.  
use appropriate phrase and expression  
generate ideas and organize them in groups  
express themselves in the form of article writing

a moving charge in a magnetic field only with that moving in an electric field.  
\*Interpret the equation for the force between two current carrying conductors.  
\*Compare the torque experienced by an electric dipole in an electric field with that experienced by a current loop in uniform magnetic field.  
\* Compare and contrast the conversion of galvanometer into ammeter and voltmeter.  
\*Apply formulae and concepts to solve related questions.  
**Lab Activity:**  
\*To measure resistance, voltage (AC/DC), current (AC) and check continuity of a

anomers, epimers and mutarotation.  
Explain the terms- amino acids, peptide bond, Proteins, Zwitter ion and denaturation.  
Explain the  $1^0, 2^0, 3^0, 4^0$  structures of proteins.  
Explain the term - Nucleic acids: their composition, nucleoside, nucleotide and phosphodiester bond.  
Explain different types of bonds in biomolecules (glycosidic bond, peptide bond and phosphodiester bond).  
Explain the function of vitamins, their deficiency diseases  
& function of hormones.  
Describe the role of biomolecules in biosystem  
Draw the Haworth and Fischer projections of glucose, fructose and disaccharides.  
**Lab Activity**  
(Volumetric analysis)

			<p>given circuit using multimeter.          *To study the variation in potential drop with length of a wire for a steady current.</p> <p><b>*Art Integrated Learning Activity Class XII C, D Creative Corner: Design your e book(let) using canva</b></p>	<p>Determine the molarity and strength of the given <math>\text{KMnO}_4</math> solution by titrating it against M/40 Oxalic acid solution. You are required to prepare 25 ml of M/40 Mohr Salt solution.</p> <p>Determine the molarity and strength of the given <math>\text{KMnO}_4</math> solution by titrating it against M/40 Oxalic acid solution. You are required to prepare 25 ml of M/40 Mohr Salt solution.</p> <p>Determine the percentage purity of the given sample of <math>\text{KMnO}_4</math> by using titration between Mohr Salt / Oxalic acid solution and <math>\text{KMnO}_4</math>.</p>					
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