LIONS PUBLIC SCHOOL
I BLOCK PHASE- 1 ASHOK VIHAR DELHI: 110052
(SESSION: 2025-2026)

SYLLABUS (2025-26).

CLASS-XI (SCIENCE)

ENGLISH

UNIT TEST- 1

READING:

UNSEEN PASSAGE

CHAPTERS:

THE PORTRAIT OF THE LADY

POEM:

A PHOTOGRAPH

WRITING SKILL:

NOTICE WRITING

HALF YEARLY:

READING: UNSEEN PASSAGES

WRITING:

ADVERTISEMENTS:
SITUATION VACANT / WANTED
INVITATION INFORMAL: REPLIES
LETTER WRITING :
- TO EDITOR
- JOB

APPLICATION LONG
COMPOSITIONS:
ARTICLE
WRITING
REPORT
WRITING

CHAPTERS:

THE SUMMER Of THE BEAUTIFUL....
WE 'RE NOT AFRAID TO DIE
DISCOVERING TUT...
THE ADDRESS

POEMS:

THE LABURNUM TOP
THE VOICE OF THE RAIN

***NOTE: SYLLABUS OF UNIT-I TO BE**

INCLUDED* UNIT II

READING:

UNSEEN
PASSAGE

WRITING

SKILL: REPORT
WRITING
CHAPTER:
MOTHER'S DAY
POEM:
CHILDHOOD
ANNUAL
CHAPTE
R:
THE TALE OF THE MELON CITY
POEM:
FATHER TO SON

NOTE: COMPLETE SYLLABUS TO BE INCLUDED

CHEMISTRY

UT 1:
CHAPTER 1 – SOME BASIC CONCEPTS OF CHEMISTRY
CHAPTER 2 – STRUCTURE OF ATOM (TILL - DUAL BEHAVIOUR OF ELECTROMAGNETIC RADIATION)
HALF YEARLY:
CHAPTER 1 – SOME BASIC CONCEPTS OF CHEMISTRY
CHAPTER 2 – STRUCTURE OF ATOM
CHAPTER 3 – CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES
CHAPTER 4 – CHEMICAL BONDING
CHAPTER 8 – ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES
UT 3:
CHAPTER 5 – CHEMICAL THERMODYNAMICS
CHAPTER 6 – EQUILIBRIUM (BEFORE IONIC EQUILIBRIUM)
ANNUAL EXAMINATION:
CHAPTER 1 – SOME BASIC CONCEPTS OF CHEMISTRY
CHAPTER 2 – STRUCTURE OF ATOM
CHAPTER 3 – CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES
CHAPTER 4 – CHEMICAL BONDING
CHAPTER 5 – CHEMICAL THERMODYNAMICS
CHAPTER 6 – EQUILIBRIUM
CHAPTER 7 – REDOX REACTIONS
CHAPTER 8 – ORGANIC CHEMISTRY: SOME BASIC PRINCIPLES AND TECHNIQUES
CHAPTER 9 – HYDROCARBONS

Maths

UT1
1.Sets
2Linear inequalities
3 Complex Numbers
HALF YEARLY EXAMINATION
1 Sets
2.Relations and Functions
3.Trigonometric Functions
4.Complex Numbers and Quadratic Equations
5.Linear Inequalities
9 .Sequences and Series
12.Introduction to Three Dimentional Geometry
UT 2
7.Permutations and Combinations
8.Binomial Theorem
Annual Examination
Full Syllabus

PHYSICS

Chapter-1 : Units and Measurements
Chapter-2: Motion in a Straight Line
Chapter-3: Motion in a Plane
Chapter-4: Laws of Motion
Chapter-5: Work, Energy and Power
Chapter-6: System of Particles and Rotational Motion
Chapter-7: Gravitation
Chapter-8: Mechanical Properties of Solids
Chapter-9: Mechanical Properties of Fluids
Chapter-10: Thermal Properties of Matter
Chapter-11: Thermodynamics
Chapter-12: Kinetic Theory
Chapter-13: Oscillations
Chapter-14: Waves

UT 1 – CH 1 & 2
Half Yearly – Ch 1 to 5 , Ch 7, 8
UT 2 – Ch 6 & 9
Annual Examination – Ch 1 to 14

COMPUTER SCIENCE

UNIT TEST-1
Unit 1: Computer Systems and Organisation
● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB)
● Types of software: System software (Operating systems, system utilities, device drivers), Programming tools and language translators (assembler, compiler, and interpreter), application software
● Operating System(OS): functions of the operating system, OS user interface
● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits ● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems
● Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)
Unit 2: Computational Thinking and Programming - I
● Introduction to Problem-solving: Steps for Problem-solving (Analysing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition
● Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments
● Knowledge of data types: Number(integer, floating point,complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.
● Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)
● Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.

HALF YEARLY

Unit 1: Computer Systems and Organisation

● Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (bit, byte, KB, MB, GB, TB, PB) ● Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software ● Operating System(OS): functions of the operating system, OS user interface ● Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits ● Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems ● Encoding Schemes: ASCII, ISCII, and Unicode (UTF8, UTF32)

Unit 2: Computational Thinking and Programming –

● Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition

● Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments

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● Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)

● Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output. ● Errors-syntax errors, logical errors, and run-time errors

● Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow ● Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number.

● Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.

● Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods–len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(),lstrip(), rstrip(), strip(), replace(), join(), partition(), split()

● Lists: introduction, indexing, list operations (concatenation, repetition, membership and slicing), traversing a list using loops, built-in functions/methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list.

UNIT TEST -2

Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.

● Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(),

sorted(); Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them

ANNUAL TERM
Full Syllabus