



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

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**SYLLABUS 2025-26**

**CLASS – XII-A**

**ENGLISH**

**UNIT TEST - I**

**READING:**

UNSEEN PASSAGE

**WRITING:**

FORMAL INVITATION (LETTER & CARD)

**CHAPTERS:**

THE LAST LESSON

THE THIRD LEVEL

**POEM**

MY MOTHER AT SIXTY-SIX

**UNIT TEST II**

UNSEEN PASSAGE

**WRITING SKILL:**

JOB APPLICATION

**CHAPTERS:**

LOST SPRING

THE TIGER KING

**POEM**

KEEPING QUIET

**HALF YEARLY**

UNSEEN PASSAGES.

**WRITING SKILLS:**

FORMAL INVITATION (card & letter)

**LETTER WRITING**

TO EDITOR

JOB APPLICATION

ARTICLE WRITING

REPORT WRITING

**CHAPTERS:**

DEEP WATER

THE RATTRAP

JOURNEY TO THE END OF THE EARTH

**POEMS**

A THING OF THE BEAUTY

A ROADSIDE STAND

**UNIT TEST-I & II to be included.**

**PREBOARD – I FLAMINGO**

**CHAPTERS: INDIGO**

POETS AND PANCAKES

GOING PLACES

INTERVIEW

**POEMS:**

AUNT JENNIFER'S TIGERS

VISTAS

ON THE FACE OF IT

MEMORIES OF CHILDHOOD

CUTTING OF MY LONG HAIR

WE TOO ARE HUMAN BEINGS.

**\*ENTIRE SYLLABUS TO BE INCLUDED IN PRE-BOARD-1\***

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**MATHS**

**UNIT TEST 1**

CH 3 Matrices

CH 4 Determinants

CH 2 Inverse Trigonometry Functions

CH 12 Linear Programming Problems

**UNIT TEST 2**

CH 5 Continuity and Differentiability

CH 6 Application of Differentiation

**HALF YEARLY EXAMINATION**

CH 3 Matrices

CH 4 Determinants

CH 2 Inverse Trigonometry Functions

CH 12 Linear Programming Problems

CH 5 Continuity and Differentiability

CH 6 Application of Differentiation

CH 7 Intergration

CH 8 Application of Intergration

**PRE-BOARD**

**Full Syllabus**

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**COMPUTER SCIENCE**

**UNIT TEST-1**

**Unit 3: Database Management**

- Database concepts: introduction to database concepts and its need
- Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
- Structured Query 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, 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.

## UNIT TEST-2

### Unit 1: Computational Thinking and Programming – 2

- Revision of Python topics covered in Class XI.
- Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
- Exception Handling: Introduction, handling exceptions using try-except-finally blocks
- Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
- Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file
- Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file ● CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()
- Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.
- Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries

## HALF YEARLY 2025-26

### **Unit 1: Computational Thinking and Programming – 2**

- Revision of Python topics covered in Class XI.
- Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
- Exception Handling: Introduction, handling exceptions using try-except-finally blocks
- Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
- Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file.
- Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file

- CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader()
- Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.

## **Unit 2: Computer Networks**

Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)

- Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)
- Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)
- Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)
- Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) • Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP
- Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting

## **Unit 3: Database Management**

- Database concepts: introduction to database concepts and its need
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- Structured Query 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, 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.

## **PRE-BOARD 1 & PRE – BOARD 2**

Full Syllabus as per CBSE.

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## CHEMISTRY SYLLABUS

Chapter 1: Solutions  
Chapter 2: Electrochemistry  
Chapter 3: Chemical kinetics  
Chapter 4: d -and f -Block Elements  
Chapter 5: Coordination Compounds  
Chapter 6: Haloalkanes and Haloarenes  
Chapter 7: Alcohols, Phenols and Ethers  
Chapter 8: Aldehydes, Ketones and Carboxylic Acids  
Chapter 9: Amines  
Chapter 10: Biomolecules

**UT 1: CH-1, CH-2**

**UT 2: CH-4, CH-5**

**HALF YEARLY: CH-1 to CH-7**

**PREBOARD I: CH-1 to CH-10**

**PREBOARD II: CH-1 to CH-10**

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## PHYSICS SYLLABUS

Chapter–1: Electric Charges and Fields  
Chapter–2: Electrostatic Potential and Capacitance  
Chapter–3: Current Electricity  
Chapter–4: Moving Charges and Magnetism  
Chapter–5: Magnetism and Matter  
Chapter–6: Electromagnetic Induction  
Chapter–7: Alternating Current  
Chapter–8: Electromagnetic Waves  
Chapter–9: Ray Optics and Optical Instruments  
Chapter–10: Wave Optics  
Chapter–11: Dual Nature of Radiation and Matter  
Chapter–12: Atoms  
Chapter–13: Nuclei  
Chapter–14: Semiconductor

**UT – 1 – CH 1 & 2**

**UT – 2 – CH 3 & 4**

**HALF YEARLY – CH 1 to 8**

**PREBOARD I – CH 1 to 14**

**PREBOARD II – CH 1 to 14**