



LIONS PUBLIC SCHOOL

I BLOCK PHASE- 1 ASHOK VIHAR

DELHI: 110052

(SESSION: 2024-25)

Annual Syllabus

Class XII A

ENGLISH

UNIT TEST - I

UNSEEN PASSAGE

NOTICE WRITING

CHAPTERS :

THE LAST LESSON

THE THIRD LEVEL

POEM

MY MOTHER AT SIXTY SIX.

UNIT TEST II

UNSEEN PASSAGE

WRITING SKILL:

FORMAL INVITATION : BOTH THE REPIES

CHAPTERS:

LOST SPRING

THE TIGER KING

POEM

KEEPING QUIET

HALF YEARLY

UNSEEN PASSAGES.

WRITING SKILLS:

INFORMAL INVITATION AND ITS BOTH THE REPLIES

LETTER WRITING

TO EDITOR

JOB APPLICATION

ARTICLE WRITING

REPORT WRITING

CHAPTERS:

DEEP WATER

THE RATRAP

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 & II

FLAMINGO

CHAPTERS:

INDIGO

POETS AND PANCAKES

INTERVIEW

GOING PLACES

POEMS:

AUNT JENNIFER'S TIGERS

VISTAS

ON THE FACE OF IT

MEMORIES OF CHILDHOOD

CUTTING OF MY LONG HAIR

WE TOO ARE HUMAN BEINGS.

PHYSICS

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

CHEMISTRY

UT-1

Chapter – 1 (Solutions)

Chapter – 6 (Haloalkanes and Haloarenes) [Till chemical reactions of haloalkanes]

UT-2

Chapter – 2 (Electrochemistry)

Chapter – 7 (Alcohols, Phenols and ethers) [Till Chemical reactions of Phenols]

Half Yearly

Chapter – 1 (Solutions)

Chapter – 2 (Electrochemistry)

Chapter – 3 (Chemical Kinetics)

Chapter – 4 (D and F block elements)

Chapter – 5 (Co-ordination compounds)

Chapter – 6 (Haloalkanes and Haloarenes)

Chapter – 7 (Alcohols, Phenols and ethers)

Pre-Boards 1 &2 (Full Syllabus)

Chapter – 1 (Solutions)

Chapter – 2 (Electrochemistry)

Chapter – 3 (Chemical Kinetics)

Chapter – 4 (D and F block elements)

Chapter – 5 (Co-ordination 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)

MATHS

UT 1

- Matrices
- Determinants

- Linear programming problems

HALF YEARLY

- Relations
- Inverse Trigonometric Functions
- Matrices
- Determinants
- Continuity and Differentiability
- Application of Derivative
- Integration
- Application of Integration
- Linear Programming Problem

UT 2

- Inverse Trigonometric Functions
- Continuity and Differentiability
- Application of Derivative

ANNUAL EXAMINATION

Complete syllabus as prescribed by CBSE.

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 2024-25

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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

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PRE-BOARD 1 & PRE – BOARD 2

Full Syllabus as per CBSE.
