ST. THOMAS SCHOOL, LONI

SYLLABUS 2024-25

CLASS – XII A (SCIENCE)

UNIT TEST -1

ENGLISH (301)

Prescribed Books: **1) Flamingo**
2) Vistas (Supplementary Book)

Publisher- NCERT

Reading Comprehension-   1.Unseen passage- (The passage may be factual, descriptive or literary/discursive or persuasive)   2.Unseen passage-Case based factual passage
Creative Writing Skills   1. Short Writing Tasks- Notice   2. Long Writing Tasks- Letter to the editor and Report Writing
Literature- Questions based on extracts/texts to assess comprehension and appreciation, analysis, inference and extrapolation   **Book- Flamingo**   Ch. - The Last Lesson   Ch - Lost Spring   Poem- My Mother at Sixty-Six   Poem – Keeping Quiet   **Book- Vistas**   Ch.- The Tiger King

Subject- Physics (042)

BOOK-NCERT

Chapter-1	Electric charges and Fields
Chapter-2	Electric potential and Capacitance

Subject- Chemistry (043)

BOOK-NCERT

Chapter-2	Solutions
Chapter-10	Haloalkanes and Haloarenes

Subject-Biology (044)

BOOK- NCERT

Chapter-2	Sexual Reproduction in Flowering Plants
Chapter-3	Human Reproduction
Chapter-4	Reproductive Health

Subject- Mathematics (041)

Main course book : N.C.E.R.T

Reference Book : Mathematics -XII (Author - R.D .Sharma)

Chapter -2	Inverse Trigonometric Functions
Chapter - 3	Matrices
Chapter -4	Determinants

Subject -Physical Education (048)

TEXT BOOK- health and physical education
PUBLISHERS- lakshmi publication

Chapter-1	Management of Sporting Events
Chapter-2	Children and Women in Sports

Subject- Carnatic Music (031)

TEXT BOOK- SOUTH INDIAN MUSIC BOOK BY SAMBAMOORTHY
PUBLISHER- INDIAN MUSIC PUBLISHING HOUSE, MADRAS

S.NO	TOPICS
1.	**BIOGRAPHIES** – ANNAMACHARYA, KSHETRAJNA, SWATI TIRUNAL, GOPAL KRISHNA BHARATI, PATNAM SUBHRAMANYA IYER,
2.	**LAKSHANA GRANDHAS** – SANGITA SARAMRITA, SANGITA SAMPRADAYA PRADARSHINI
3.	**MUSICAL FORMS** – KRITI, PADAM, JAVALI
4.	**RAGA LAKSHANAS** – MOHANAM, PANTUVARALI, KEERAVANI, KEDARAGOULA, TODI

SUBJECT – Fine Arts (Painting) (049)

Book – Panoramic Indian Painting
Publisher- Vishal Publication

PERIODIC TEST- 1
Unit- 1 The Rajasthani and Pahari School of Miniature painting

SUBJECT-COMPUTER SCIENCE (Code- 083)

Name of Book- Computer Science with Python
Publisher- Sultan Chand

Unit I: 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)

Unit II: Computer Networks
- Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and Packet switching).
- Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps).
- Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link.
- Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, WiFi card.
- Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN.
- Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communication protocol such as GSM, GPRS and WLL.