

ST. THOMAS SCHOOL,
LONI SYLLABUS 2024-25

CLASS – XII A

SCIENCE

UNIT TEST -II

ENGLISH (301)

Textbooks- FLAMINGO
VISTAS
(SUPPLEMENTARY READER)

Publisher- NCERT

Reading- 1. Case based passage with verbal/visual inputs like statistical data, charts etc.
Writing- 1. Application for a job with bio-data or a resume 2. Article Writing
Flamingo Prose: -Deep Water -Ratrap Vistas -The Third Level -Journey to the end of the Earth

SUBJECT- PHYSICS (042)

BOOK-NCERT

Chapter-3	Current Electricity
Chapter-4	Magnetic Effect of Current

SUBJECT- CHEMISTRY (043)

BOOK-NCERT

Chapter-10	Haloalkanes and Haloarenes
Chapter-11	Alcohols Phenols and Ethers

SUBJECT-BIOLOGY (044)

BOOK- NCERT

Chapter-5	Principles of Inheritance and Variation
Chapter-6	Molecular Basis of Inheritance

SUBJECT: MATHEMATICS (041)

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

Reference Book: R. D. SHARMA

CHAPTER NO.	CHAPTER NAME
Chapter -2	Inverse Trigonometric Functions
Chapter -3	Matrices
Chapter-4	Determinants
Chapter-5	Continuity and Differentiability

SUBJECT – FINE ARTS (PAINTING) (049)

TERM- II

Unit	Topic
Unit- 3	The Bengal school of Painting
	The Modern Trends in Indian Art

SUBJECT- CARNATIC MUSIC

S.NO	TOPICS
1.	MUSICAL FORMS – KRITI, PADAM, JAVALI, TIRUPPUGAZH, RAGAMALIKA

2.	DEFINITION - JANAKA RAGA, JANYA RAGA, UPANGA, VARJA, VAKRA RAGAS, ARUDI, EDUPPU, PRABHANDHAM, GRAMA, MURCHANA, JAATI
3.	RAGA LAKSHANAS – MOHANAM, PANTUVARALI, KEERAVANI, KEDARAGOULA, TODI, NATA, GOULA, SRI, SAVERI, RITIGOULA
4.	MANODHARMA SANGITAM

SUBJECT- PHYSICAL EDUCATION (048)

TEXT BOOK- health and physical education

PUBLISHERS- Lakshmi publication

UNIT TEST II

Total Chapters:

Chapter-3	Yoga as Preventive measure for Lifestyle Disease
Chapter-4	Physical Education & Sports for CWSN

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.