# TAGORE INTERNATIONAL SCHOOL
# VASANT VIHAR, NEW DELHI
# FINAL EXAMINATION 2024-25
# SYLLABUS
# CLASS XI C & D

## ENGLISH

**Section A**
Reading Comprehension
Note Making

**Section B**
Grammar-
-Questions on Gap Filling (Tenses, Clauses)
-Questions on Re-Ordering/Transformation of Sentences
Writing Skills-
-Poster Writing
-Advertisement
-Speech
-Debate

**Section C**
 **-**Literature-
Hornbill-
-The Portrait of a Lady (Prose)
-A Photograph (Poem)
-"We're Not Afraid to Die... If We Can All Be Together
-Discovering Tut: The Saga Continues
-The Laburnum Top (Poem)
-The Voice of the Rain (Poem)
-Childhood (Poem)
-The Adventure
-Silk Road (Prose)
-Father to Son (Poem)
Snapshots-
-The Summer of the Beautiful White Horse (Prose)
-The Address (Prose)
-Mother's Day (Play)
-Birth (Prose)
-The Tale of Melon City

## MATHEMATICS

### Theory
1. Sets
2. Relations and Functions
3. Trigonometric Functions
4. Complex Numbers
5. Linear Inequalities
6. Permutation and combinations
7. Sequence and Series
8. Straight lines
9. Conic sections
10. Limits and Derivatives
11. Probability

### Practicals
1. Pen - paper test of any one activity out of 10 activities (as per chit system)
2. Viva will be from the activity chosen .
3. Submission of Maths register and Practical File

## PHYSICS

Chapter 2 : Unit and Measurements
Chapter 3: Motion in a straight line
Chapter 4: Motion in a Plane
Chapter 5 : Laws of Motion
Chapter 6: Work Energy and Power
Chapter 8: Gravitation
Chapter 9: Mechanical properties of solids
Chapter 10: Mechanical properties of fluids
Chapter 14: Oscillations
Chapter 15: Waves

**(Topics deleted by CBSE  NOT to be included)**

**Practical Examination:**
1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers
2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
3. To find the weight of a given body using the parallelogram law of vectors.
4. Using a simple pendulum, plot its $L$-$T^2$ graph and use it to find the effective length of second's pendulum.
5. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface.
6. To find the coefficient of Viscosity.
7. To find the spring Constant

# CHEMISTRY

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 and molecular structure
Chapter 5: Equilibrium
Chapter 6: Redox
Chapter 7: Organic chemistry
Chapter 8: Hydrocarbons
Practical: Salt analysis and volumetric analysis


# BIOLOGY

Chapter 1 : The Living World
Chapter 2 : Biological Classification
Chapter 5 : Morphology of Flowering Plants
Chapter 6 : Anatomy of Flowering Plants
Chapter 7 : Structural Organisation in Animals
Chapter 9 : Biomolecules
Chapter 10 : Cell Cycle and Cell Division
Chapter 11 : Photosynthesis in Higher Plants
Chapter 12 : Respiration in Plants
Chapter 13 : Plant Growth and Development
Chapter 14 : Breathing and Exchange of Gases
Chapter 15 : Body Fluids and Circulation
Chapter 17 : Locomotion and Movement
Chapter 19 : Chemical Coordination and Integration


# ECONOMICS

**Part A: Statistics for Economics**
 Unit 1: Introduction.
 Unit 2: Collection, Organisation and Presentation of data.
 Unit 3: Measures of Central Tendency- Arithmetic mean, Median and Mode.
        Correlation.
        Index Numbers.


**Part B: : Introductory Microeconomics**
 Unit 4: Introduction.
 Unit 5: Consumer's Equilibrium and Demand.
 Unit 6: Producer Behaviour and Supply.
 Unit 7: Perfect Competition - Price Determination and simple applications.

# COMPUTER SCIENCE

**Theory**

**Unit 1: Computer Systems and Organisation**
- Computer organisation
- Types of software
- Operating System
- Boolean logic
- Number System
- Encoding Schemes

**Unit 2: Computational Thinking and Programming - I**
- Introduction to Problem-solving
- Familiarization with the basics of Python programming
- Knowledge of data types
- Operators
- Expressions, statement, type conversion, and input/output
- Errors- syntax errors, logical errors, and run-time errors
- Flow of Control
- Conditional statements
- Iterative Statement
- Strings
- Lists
- Tuples
- Dictionary
- Introduction to Python modules

**Unit 3: Society, Law and Ethics**
- Digital Footprints
- Digital Society and Netizen
- Data Protection
- Cyber Crime
- Cyber safety
- Malware
- E-waste management
- Information Technology Act (IT Act)
- Technology and society

**Practical**

Lists, Strings, dictionaries, tuples, MySQL

# PSYCHOLOGY

**Theory**
1. What is Psychology?
2. Methods of Enquiry in Psychology
3. Human Development
4. Sensory, Attentional and Perceptual Processes
5. Learning
6. Human Memory
7. Thinking
8. Motivation and Emotion

**Practical**
1. Span of attention
2. Impact of Meaningfulness of Material on Learning