TAGORE INTERNATIONAL SCHOOL
VASANT VIHAR, NEW DELHI

TERM I EXAMINATION-2021
SYLLABUS
CLASSES XI C & D

ENGLISH

Short Writing Tasks
Notice Writing

Long Writing Tasks

Business or Official Letters (Making enquiries,registering complaints,asking for or giving information,placing orders and sending replies)

Grammar
Determiner
Tenses
Re-ordering of Sentences

Literature

Hornbill
''We' re Not Afraid to Die..
Discovering Tut:the Saga Continues
The Laburnum Top
Landscape of the Soul

Snapshots
Ranga's Marriage

MATHEMATICS

Ch 1 : Sets
Ch2   : Relations and Functions
Ch5   : Complex Numbers and Quadratic Equations
Ch 9 : Sequences and Series
Ch 10 : Straight Lines
Ch13 : Limits and Derivatives (Only limits)

PRACTICAL:
1. To verify distributive law for three given non-empty sets A , B and C ,that is ,
$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$

2. To verify that for two sets A and B , n(AxB) = pq , and the total number of relations from A to B is 2^{pq} , where n(A) = p and n(B) = q
3. To distinguish between a Relation and a Function
4. To demonstrate that the Arithmetic Mean of two different positive numbers is always greater than the Geometric Mean

PHYSICS

Unit 2 Unit and Measurement
Unit 3 Motion in 1-D
Unit 4 Motion in a plane
Unit 5 Laws of Motion
Unit 6 Work Energy and power
Unit 7 System of particles and rotational Motion.
Unit 8 Gravitation

PRACTICAL:
1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.
2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
3. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface.

CHEMISTRY
Unit 1 - Some Basic Concepts of Chemistry
Unit 2 Structure of Atom
Unit 3 Classification of Elements and Periodicity in Properties
Unit 4 Chemical Bonding and Molecular Structure (4.1 -- 4.6)
Unit 8 Redox Reactions
Unit 10 The s-Block Elements
Unit 12 Organic Chemistry – Some Basic Principles and Techniques (only nomenclature of alkanes, alkenes and alkynes)

PRACTICAL:
Crystallization technique
Volumetric Analysis

NOTE: Topics deleted by CBSE will not be tested.
BIOLOGY:
Unit 1- Biological classification
Plant diversity

Animal diversity

Unit 2- Plant morphology(Flower and Inflorescence)

Animal tissues (Epithelial and connective tissue)

Unit 3-Cell as a unit of life

Biomolecules

Practical syllabus- Flower dissection & display

Potato osmoscope to study osmosis

Spotting- specimens shown about plants

ECONOMICS

Part: Statistics

Unit 1: Introduction

Unit 2: Collection, Organisation and Presentation of data

Unit 3: Statistical Tools and Interpretation

Measures of Central Tendency- Arithmetic mean, median and mode

Part B: Introductory Microeconomics

Unit 4: Introduction

Unit 5: Consumer's Equilibrium and Demand

COMPUTER SCIENCE

UNIT 1: Computer System and organization

- ●Basic Computer Organisation
- ● Types of software
- ● Operating system (OS)
- ● Boolean logic
- ● Number system
- ● Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32)

UNIT 2: Computational Thinking and Programming

- ● Introduction to problem solving
- ● Familiarization with the basics of Python programming
- ● Knowledge of data types
- ● Operators
- ● Expressions, statement, type conversion & input/output
- ● Errors
- ● Conditional statements
- ● Iterative statements
- ● Strings

Practical List

Use your logic to complete your program file (including code and output screenshots) with the following set of programs:

1. To swap two numbers
2. Enter the choice of the user and perform the following as per the choice entered:

Choice	Operation
1	Calculate and print the area and perimeter of rectangle
2	Calculate and print the area and perimeter of square
3	Calculate and print the area and circumference of circle
Any other number	Print invalid Input

Do the following programs using FOR loop:
3. Print the Fibonacci series till the level entered by the user.
4. Print all the odd numbers between the range 50 and 100.
5. Print all the multiples of 5 in the range between 1 to the number entered by the user.
6. Input a number from the user and check whether it is prime number or not.
7. Print the following patterns using loops:

a.
```
*
* *
* * *
* * * *
* * * * *
```

b.
```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

c.
```
4 3 2 1
4 3 2
4 3
4
```

d.
```
1
2 2
3 3 3
```

4 4 4 4
        5 5 5 5 5

e.   A
        A B
        A B C
        A B C D
        A B C D E

Do the following programs using WHILE loop:
8. Print the table of a number entered by the user.
9. Print the factorial of a number entered by the user .
10. Print all the even numbers between 1 to the number entered by the user. Also find the sum of all these even numbers. String Manipulation
11. WAP to check whether a given string is a palindrome or not.
12. WAP to count the number of uppercase, lower case, spaces, digits and special characters in a string entered by the user.
13. WAP to toggle a string input by the user. (Convert uppercase alphabets to lower case and vice versa)
14. WAP to show the implementation of following methods in a string:
15. a. index() b. split() c. partition() d. find()

*Note: Additional practical assignments / problems as discussed in class and given in google classroom must be practiced and noted down. Also maintain a record in colab or on notebooks.

PSYCHOLOGY

    Ch.1- What is Psychology?- 10 Marks
    Ch.2- Methods of Enquiry in Psychology-13 Marks
    Ch.3- The Bases of Human Behavior-12 Marks

PRACTICAL:
 Project on Methods of Enquiry- 15 Marks