DELHI PUBLIC SCHOOL (JOKA) SOUTH KOLKATA

COMPUTER SYLLABUS [2023-2024]
CLASS – XII
Computer Science (083)

PERIODIC TEST-I	**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) **Data Structure**: Stack, operations on stack (push & pop), implementation of stack using list.
PERIODIC TEST-II	**Unit 1** **Exception Handling:** Introduction, handling exceptions using try-except-finally blocks 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. **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 csv.writer() and read from a csv file using csv.reader( )

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MIDTERM EXAMINATION	**Unit I : Revision (Computational Thinking and Programming – 2)** **Unit III : Database Management** • Database concepts • Relational data model • Structured Query Language • Interface of python with an SQL database
PRACTICE EXAMINATION	**Theory:** **Syllabus of MIDTERM** **Unit II: Computer Networks** • Evolution of networking • Data communication terminologies • Transmission media • Network devices • Network topologies and Network types • Network protocol • Introduction to web services **Practical Examination as per CBSE board's syllabus**