

KENDRIYA VIDYALAYA SANGATHAN (MUMBAI REGION)
Session Ending Examination (2018-19)
Class XI
Informatics Practices (Code 065)
Blue Print

Max Marks: 70

Time Duration: 3 Hrs.

UNIT	CHAPTER	VSA 1 Mark	SA I 2 Marks	SA II 3 Marks	LA 4 Marks	TOTAL MARKS
1	PROGRAMMING AND COMPUTATIONAL THINKING					
	Describe a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power, transition from a calculator to a computer.	3	1	-	-	05
	BASIC PYTHON PROGRAMMING					
	Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string	2	1	-	-	04
	Introduce the notion of a variable, and methods to manipulate it (concept of L-value and R-value)	1	-	-	-	01
	Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.	-	1	-	-	02
	CONTROL FLOW IN PYTHON AND PROGRAMMING					
	Conditional statements: if, if-else, if-elif-else, nested-if	-	1	-	-	02
	Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, EMI, tax calculation (examples from GST), standard deviation, correlation	1	2	1	-	06
	LISTS & DICTIONARIES					
	Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary.	1	1	1	-	06
	TEXT HANDLING	-	1	-	-	02
	PYTHON MODULES	-	1	-	-	02

2	DATA HANDLING – (DH-1)					
	Introduction to Python Pandas	-	3	-	-	08
	Python Pandas II – Dataframes and other operations	-	4	-	-	08
	Data Transfer between Files, SQL Databases and Dataframes	-	1	-	-	02
3	DATA MANAGEMENT – (DM-1)					
	Relational Databases	2	-	-	-	02
	Simple Queries in SQL	4	-	-	-	04
	Table Creation and Data Manipulation Commands	-	1	-	-	02
	Table Joins and Indexes in SQL	-	1	-	-	02
	SOCIETY, LAW AND ETHICS- (SLE-1) CYBER SAFETY					
	Cyber Safety, Appropriate usage of Social Networks, Safely accessing websites, Safely communicating data	6	2	-		10
	GRAND TOTAL	1 X 17 = 17	2 X 25 = 50	3 X 1 = 03	-	70