

Syllabus & Blue Print for Class XI/Mid Term/2022-23/I.P.(065)

Serial	UNIT/CHAPTER	1Mark	2Mark	3Mark	4Mark	Total
1. INTRODUCTION TO COMPUTER SYSTEMS						
1	Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices.	3	2	1		10
2	Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.	2	1			4
3	Software: purpose and types – system and application software, generic and specific purpose software.		1	1	1	9
2. INTRODUCTION TO PYTHON						
4	Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging.	4	3	1	1	17
5	Control Statements: if-else, for loop	3	3	1		12
6	Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.	3	4	1	1	18
Total Number of Questions		15	14	5	3	37/70

Syllabus & Blue Print for Class XII/Mid Term/2022-23/I.P.(065)

Serial	UNIT/CHAPTER	1Mark	2Mark	3Mark	4Mark	Total
	1. DATA HANDLING USING PANDAS AND DATA VISUALISATION					
1	Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames.	2	1			4
2	Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing.	4	2	1		11
3	Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing;	3	2	3	1	20
5	Importing/Exporting Data between CSV files and Data Frames.	2	1	1	1	11
7	Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram	4	2	1	1	15
4	Customizing plots: adding label, title, and legend in plots.	2	2	1		9
	Total Number of Questions	17	10	7	3	37/70

NOTE:

CBSE MODEL PAPER OR QUESTION PAPER FOR XIITH STANDARD WILL BE FOLLOWED. ABOVE SYLLABUS and BLUEPRINT IS MERELY A GUIDELINE.