22025

MAKE-UP EXAM

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BPLCK105B/BPLCKB105

First Semester B.E./B.Tech. Degree Examination, Nov./Dec. 2023
Introduction to Python Programming

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Explain string concatenation and string replication operation with an example.	06	L1	CO1
	b.	Illustrate the use of break and continue with example.	08	L2	CO1
	c.	Write a Python program to check whether the given number is positive, negative or zero.	06	L1	CO1
		OR			
Q.2	a.	What are functions in Python and how they are defined and used to modularize code?	06	L1	CO2
	b.	Explain the local and global scope with local and global variables.	08	L1	CO2
	c.	Write a program to generate Fabonacci sequence of length (N). Read N from console.	06	L1	CO2
		Module – 2			
Q.3	a.	What are lists in Python and how they used to store and manipulate collections of data.	06	L2	CO3
	b.	Explain any four built-in methods available for working with lists.	08	L1	CO3
	c.	Read N numbers from console and create a list. Develop a program to print the mean of numbers.	06	L2	CO2
		OR			
Q.4	a.	Differentiate between lists and dictionary.	06	L2	CO2
	b.	Explain with example keep( ), values( ) and items( ) methods.	08	L2	CO2
	c.	Write a program to add elements into dictionary using while loop.	06	L2	CO2
		Module – 3			
Q.5	a.	Explain any five built-in methods available for working with string along with example.	10	L2	CO3
	b.	Read a multi-digit number (as chars) from console. Develop a program to print the frequency of each digit with suitable example.	10	L2	CO3
		OR			
Q.6	a.	Explain the file reading and writing process with suitable example.	10	L2	CO3
	b.	Illustrate the role of shelve module in working with files.	10	L2	CO3
		Module – 4			
Q.7	a.	Explain the functions of shutil module with examples.	10	L2	CO3
	b.	What is meant by compressing files? Explain reading, extracting and creating ZIP files with code snippet.	10	L2	CO3
		OR			
Q.8	a.	Explain the buttons in the Debug control window.	10	L1	CO3
	b.	Write a note on raising exception.	10	L2	CO3
		Module – 5			
Q.9	a.	What do you mean by class, object and attributes? Explain with example.	08	L3	CO4
	b.	Illustrate the concept of inheritance and class diagrams with example.	12	L2	CO4
		OR			
Q.10	a.	List and explain any four object oriented characteristics possessed by Python.	08	L2	CO4
	b.	Briefly discuss the importance of __init__( ) and __str__( ) methods along with example.	12	L3	CO4

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